

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica St. Louis

13715 Rider Trail North

Earth City, MO 63045

Tel: (314)298-8566

TestAmerica Job ID: 160-5524-1

Client Project/Site: West Lake Landfill

For:

Engineering Management Support, Inc.

7220 W. Jefferson AVE

Suite 406

Lakewood, Colorado 80235

Attn: Mr. Paul Rosasco

Rhonda Ridenhower

Authorized for release by:

2/28/2014 3:47:37 PM

Rhonda Ridenhower, Manager of Project Management

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Job ID: 160-5524-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Engineering Management Support, Inc.

Project: West Lake Landfill

Report Number: 160-5524-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 02/12/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.7 C.

VOLATILE ORGANIC COMPOUNDS (GC MS)

Samples PZ-211-SD (160-5524-1), PZ-211-SS (160-5524-2), PZ-209-SD (160-5524-3), PZ-209-SS (160-5524-4), PZ-212-SS (160-5524-5), DUPLICATE 01 (160-5524-6) and TRIP BLANK (160-5524-7) were analyzed for volatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 02/13/2014 and 02/14/2014.

The continuing calibration verification (CCV) associated with batch 105508 recovered above the upper control limit for Acetone and 2-Hexanone. The samples associated with this CCV were non-detects for 2-Hexanone; Acetone was not detected above the Reporting Limit. Therefore, the data have been reported. The following samples are impacted: (CCVIS 160-105508/2).

The laboratory control sample (LCS) for batch 105508 recovered outside control limits for the following target analyte: Acetone. This analyte was biased high in the LCS but was not detected above the reporting limit in the associated samples; therefore, the data have

Case Narrative

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Job ID: 160-5524-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

been reported.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)-Total and Dissolved

Samples PZ-211-SD (160-5524-1), PZ-211-SS (160-5524-2), PZ-209-SD (160-5524-3), PZ-209-SS (160-5524-4), PZ-212-SS (160-5524-5) and DUPLICATE 01 (160-5524-6) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 02/14/2014 and analyzed on 02/18/2014, 2/19/2014 and 02/21/2014.

Prep batch 105221, analytical batch 105997

The following sample(s) was diluted due to the nature of the sample matrix: DUPLICATE 01 (160-5524-6), PZ-209-SD (160-5524-3), PZ-209-SS (160-5524-4), PZ-211-SD (160-5524-1), PZ-211-SS (160-5524-2), PZ-212-SS (160-5524-5). The samples were high in salts, which cause instrument and QC failures. Elevated reporting limits (RLs) are provided.

Prep batch 105221, analytical batch 106098

The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: PZ-211-SD (160-5524-1). Elevated reporting limits (RLs) are provided.

Prep batch 105221, analytical batch 106962

The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: DUPLICATE 01 (160-5524-6), PZ-209-SD (160-5524-3), PZ-209-SS (160-5524-4), PZ-211-SD (160-5524-1), PZ-211-SS (160-5524-2), PZ-212-SS (160-5524-5). Elevated reporting limits (RLs) are provided.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

MERCURY -Total and Dissolved

Samples PZ-211-SD (160-5524-1), PZ-211-SS (160-5524-2), PZ-209-SD (160-5524-3), PZ-209-SS (160-5524-4), PZ-212-SS (160-5524-5) and DUPLICATE 01 (160-5524-6) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 02/13/2014.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

ANIONS

Samples PZ-211-SD (160-5524-1), PZ-211-SS (160-5524-2), PZ-209-SD (160-5524-3), PZ-209-SS (160-5524-4), PZ-212-SS (160-5524-5) and DUPLICATE 01 (160-5524-6) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 02/12/2014, 02/13/2014 and 02/24/2014.

The following samples were diluted to bring the concentration of target analytes within the calibration range: DUPLICATE 01 (160-5524-6), PZ-211-SD (160-5524-1), PZ-211-SS (160-5524-2), PZ-212-SS (160-5524-5). Elevated reporting limits (RLs) are provided.

The following samples were diluted to bring the concentrations of Chloride and Sulfate within the calibration range in IC batch 105794: PZ-209-SD (160-5524-3), PZ-209-SS (160-5524-4). Elevated reporting limits (RLs) are provided.

No difficulties were encountered during the anions analysis.

All quality control parameters were within the acceptance limits.

ALKALINITY

Samples PZ-211-SD (160-5524-1), PZ-211-SS (160-5524-2), PZ-209-SD (160-5524-3), PZ-209-SS (160-5524-4), PZ-212-SS

Case Narrative

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Job ID: 160-5524-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

(160-5524-5) and DUPLICATE 01 (160-5524-6) were analyzed for alkalinity in accordance with EPA Method 310.1. The samples were analyzed on 02/19/2014 and 02/23/2014.

No difficulties were encountered during the alkalinity analysis.

All quality control parameters were within the acceptance limits.

TestAmerica St. Louis

13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica

| | | | |
|---|--|--------------------------------|------------------------|
| Client Information | Sampler (636) 939-9111 | Lab PM Ridenhower, Rhonda E | Carrier Tracking No(s) |
| Client Contact Mr. Paul Rosasco | Phone E-Mail: rhonda.ridenhower@testamericainc.com | COC No 160-499-253.1 | Page Page 1 of 10 |
| Company Engineering Management Support, Inc. | Job #: | | |

| Analysis Requested | | | | | | | | | |
|--|----------------------|--------------|----------------|----------------------------------|----------------------|-------------------|-------------------|---|---|
| Preservation Codes: | | | | | | | | | |
| <input checked="" type="checkbox"/> A - HCl <input type="checkbox"/> B - NaOH <input type="checkbox"/> C - Zn Acetate <input type="checkbox"/> D - Nitric Acid <input type="checkbox"/> E - NaHSO4 <input type="checkbox"/> F - MeOH <input type="checkbox"/> G - Anchors <input type="checkbox"/> H - Ascorbic Acid <input type="checkbox"/> I - Ice <input type="checkbox"/> J - DI Water <input type="checkbox"/> K - EDTA <input type="checkbox"/> L - EDA <input type="checkbox"/> M - Hexane <input type="checkbox"/> N - None <input type="checkbox"/> O - Ac-NaO2 <input type="checkbox"/> P - Na2O4S <input type="checkbox"/> Q - Na2SO3 <input type="checkbox"/> R - Na2S2O3 <input type="checkbox"/> S - H2SO4 <input type="checkbox"/> T - TSP Dodecylamine <input type="checkbox"/> U - Acetone <input type="checkbox"/> V - MCAA <input type="checkbox"/> W - pH 4-5 <input type="checkbox"/> Z - other (Specify) | | | | | | | | | |
| Total Number of Contaminants | | | | | | | | | |
| 5524 | | | | | | | | | |
| Special Instructions/Note: | | | | | | | | | |
| Dissolved CO ₂ , 7420A | | | | | | | | | |
| 8260C - VOA TAL | | | | | | | | | |
| 8260C - Standard List | | | | | | | | | |
| 6010C, 7470A | | | | | | | | | |
| 3101 - Alkalinity, 310.0 | | | | | | | | | |
| Field Filtered Sample (Yes or No) | | | | | | | | | |
| Perfom M/S/MSD (Yes or No) | | | | | | | | | |
| Field Filtered Sample (Yes or No) | | | | | | | | | |
| N N D A A | | | | | | | | | |
| Sample Identification | | | | | | | | | |
| Preservation Code: | | | | | | | | | |
| P2-211-SD | 2/2/14 | 08/25 | G | Water | X | X | X | X | X |
| P2-211-SS | | 09/45 | G | Water | X | X | X | X | X |
| P2-209-SD | | 10/40 | G | Water | X | X | X | X | X |
| P2-209-SS | | 11/20 | G | Water | X | X | X | X | X |
| P2-212-SS | | 12/40 | G | Water | X | X | X | X | X |
| Duplicate | | — | G | Water | X | X | X | X | X |
| Trip Blank | | — | G | Water | X | X | | | |
| | | | | Water | | | | | |
| | | | | Water | | | | | |
| | | | | Water | | | | | |
| | | | | Water | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | | | | | |
| <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | | |
| Special Instructions/QC Requirements: | | | | | | | | | |
| Possible Hazard Identification | | | | | | | | | |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | | | | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | | | | | | | |
| Empty Kit Relinquished by: | | | | | | | | | |
| Relinquished by Matt Johnson | Date/Time 2/12/14 | Date 1454 | Company H&A | Received By Jill Clark | Date/Time 2/12/14 | Date/Time 1454 | Company TA STN | | |
| Relinquished by | Date/Time | Date | Time | Method of Shipment | | | | | |
| Relinquished by | Date/Time | Date | Time | Method of Shipment | | | | | |
| Custody Seals Intact: Custody Seal No.: <input type="text"/> | | | | | | | | | |
| Cooler Temperature(s) °C and Other Remarks: <input type="text"/> | | | | | | | | | |
| Δ Yes <input type="checkbox"/> No <input type="checkbox"/> | | | | | | | | | |

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-5524-1

Login Number: 5524

List Source: TestAmerica St. Louis

List Number: 1

Creator: Clarke, Jill C

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-5524-1

Login Number: 5524

List Source: TestAmerica Savannah

List Number: 1

List Creation: 02/18/14 12:11 PM

Creator: Conner, Keaton

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | N/A | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Definitions/Glossary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| * | LCS or LCSD exceeds the control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits. |
| E | Result exceeded calibration range. |
| ^ | Instrument related QC exceeds the control limits |

General Chemistry

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

| | |
|----------------|---|
| □ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

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Method Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

| Method | Method Description | Protocol | Laboratory |
|--------|-------------------------------------|----------|------------|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | TAL SL |
| 6010C | Metals (ICP) | SW846 | TAL SL |
| 7470A | Mercury (CVAA) | SW846 | TAL SL |
| 300.0 | Anions, Ion Chromatography | MCAWW | TAL SL |
| 310.1 | Alkalinity | MCAWW | TAL SAV |

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 160-5524-1 | PZ-211-SD | Water | 02/12/14 08:25 | 02/12/14 14:54 |
| 160-5524-2 | PZ-211-SS | Water | 02/12/14 09:45 | 02/12/14 14:54 |
| 160-5524-3 | PZ-209-SD | Water | 02/12/14 10:40 | 02/12/14 14:54 |
| 160-5524-4 | PZ-209-SS | Water | 02/12/14 11:20 | 02/12/14 14:54 |
| 160-5524-5 | PZ-212-SS | Water | 02/12/14 12:40 | 02/12/14 14:54 |
| 160-5524-6 | DUPLICATE 01 | Water | 02/12/14 00:00 | 02/12/14 14:54 |
| 160-5524-7 | TRIP BLANK | Water | 02/12/14 00:00 | 02/12/14 14:54 |

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-211-SD

Lab Sample ID: 160-5524-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------|--------|-----------|-------|--------|------|---------|---|--------|-----------|
| Acetone | 9.5 | J * | 20 | 6.7 | ug/L | 1 | | 8260C | Total/NA |
| Barium | 35 | J | 250 | 20 | ug/L | 5 | | 6010C | Total/NA |
| Barium | 34 | J | 250 | 20 | ug/L | 5 | | 6010C | Total/NA |
| Beryllium | 35 | J | 250 | 31 | ug/L | 50 | | 6010C | Total/NA |
| Cadmium | 65 | J | 250 | 46 | ug/L | 50 | | 6010C | Total/NA |
| Calcium | 64000 | | 5000 | 530 | ug/L | 5 | | 6010C | Total/NA |
| Calcium | 66000 | | 50000 | 5300 | ug/L | 50 | | 6010C | Total/NA |
| Calcium | 64000 | | 10000 | 1100 | ug/L | 10 | | 6010C | Total/NA |
| Calcium | 65000 | | 5000 | 530 | ug/L | 5 | | 6010C | Total/NA |
| Chromium | 330 | J ^ | 500 | 160 | ug/L | 50 | | 6010C | Total/NA |
| Chromium | 59 | J ^ | 100 | 31 | ug/L | 10 | | 6010C | Total/NA |
| Iron | 140 | J | 500 | 140 | ug/L | 5 | | 6010C | Total/NA |
| Iron | 140 | J | 500 | 140 | ug/L | 5 | | 6010C | Total/NA |
| Lead | 95 | J | 500 | 75 | ug/L | 50 | | 6010C | Total/NA |
| Magnesium | 29000 | | 5000 | 660 | ug/L | 5 | | 6010C | Total/NA |
| Magnesium | 28000 | J | 50000 | 6600 | ug/L | 50 | | 6010C | Total/NA |
| Magnesium | 28000 | | 10000 | 1300 | ug/L | 10 | | 6010C | Total/NA |
| Magnesium | 28000 | | 5000 | 660 | ug/L | 5 | | 6010C | Total/NA |
| Manganese | 21 | J | 75 | 17 | ug/L | 5 | | 6010C | Total/NA |
| Manganese | 21 | J | 75 | 17 | ug/L | 5 | | 6010C | Total/NA |
| Potassium | 8900 | J ^ | 25000 | 8300 | ug/L | 5 | | 6010C | Total/NA |
| Sodium | OVER | E ^ | 5000 | 1600 | ppm | 5 | | 6010C | Total/NA |
| Sodium | 120000 | | 50000 | 16000 | ug/L | 50 | | 6010C | Total/NA |
| Sodium | 130000 | | 10000 | 3200 | ug/L | 10 | | 6010C | Total/NA |
| Sodium | 120000 | | 5000 | 1600 | ug/L | 5 | | 6010C | Total/NA |
| Zinc | 60 | J | 100 | 26 | ug/L | 5 | | 6010C | Total/NA |
| Zinc | 470 | J | 1000 | 260 | ug/L | 50 | | 6010C | Total/NA |
| Zinc | 82 | J | 200 | 52 | ug/L | 10 | | 6010C | Total/NA |
| Zinc | 51 | J | 100 | 26 | ug/L | 5 | | 6010C | Total/NA |
| Calcium | 63000 | | 5000 | 530 | ug/L | 5 | | 6010C | Dissolved |
| Calcium | 64000 | | 5000 | 530 | ug/L | 5 | | 6010C | Dissolved |
| Magnesium | 28000 | | 5000 | 660 | ug/L | 5 | | 6010C | Dissolved |
| Magnesium | 27000 | | 5000 | 660 | ug/L | 5 | | 6010C | Dissolved |
| Manganese | 19 | J | 75 | 17 | ug/L | 5 | | 6010C | Dissolved |
| Manganese | 19 | J | 75 | 17 | ug/L | 5 | | 6010C | Dissolved |
| Potassium | 9200 | J | 25000 | 8300 | ug/L | 5 | | 6010C | Dissolved |
| Sodium | 120000 | ^ | 5000 | 1600 | ug/L | 5 | | 6010C | Dissolved |
| Sodium | 140000 | | 5000 | 1600 | ug/L | 5 | | 6010C | Dissolved |
| Zinc | 53 | J | 100 | 26 | ug/L | 5 | | 6010C | Dissolved |
| Zinc | 44 | J | 100 | 26 | ug/L | 5 | | 6010C | Dissolved |
| Nitrate as N | 0.080 | | 0.020 | 0.0040 | mg/L | 1 | | 300.0 | Total/NA |
| Bromide | 0.12 | J | 0.25 | 0.025 | mg/L | 1 | | 300.0 | Total/NA |
| Chloride - DL | 27 | | 4.0 | 0.40 | mg/L | 20 | | 300.0 | Total/NA |
| Sulfate - DL | 78 | | 10 | 1.0 | mg/L | 20 | | 300.0 | Total/NA |
| Analyte | Result | Qualifier | RL | RL | Unit | Dil Fac | D | Method | Prep Type |
| Alkalinity | 340 | | 5.0 | 5.0 | mg/L | 1 | | 310.1 | Total/NA |

Client Sample ID: PZ-211-SS

Lab Sample ID: 160-5524-2

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-211-SS (Continued)

Lab Sample ID: 160-5524-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------|--------|-----------|-------|--------|------|---------|---|--------|-----------|
| Barium | 50 | J | 250 | 20 | ug/L | 5 | | 6010C | Total/NA |
| Barium | 51 | J | 250 | 20 | ug/L | 5 | | 6010C | Total/NA |
| Calcium | 71000 | | 5000 | 530 | ug/L | 5 | | 6010C | Total/NA |
| Calcium | 72000 | | 5000 | 530 | ug/L | 5 | | 6010C | Total/NA |
| Lead | 8.0 | J | 50 | 7.5 | ug/L | 5 | | 6010C | Total/NA |
| Magnesium | 41000 | | 5000 | 660 | ug/L | 5 | | 6010C | Total/NA |
| Magnesium | 40000 | | 5000 | 660 | ug/L | 5 | | 6010C | Total/NA |
| Manganese | 22 | J | 75 | 17 | ug/L | 5 | | 6010C | Total/NA |
| Manganese | 21 | J | 75 | 17 | ug/L | 5 | | 6010C | Total/NA |
| Sodium | 31000 | ^ | 5000 | 1600 | ug/L | 5 | | 6010C | Total/NA |
| Sodium | 37000 | | 5000 | 1600 | ug/L | 5 | | 6010C | Total/NA |
| Zinc | 60 | J | 100 | 26 | ug/L | 5 | | 6010C | Total/NA |
| Zinc | 50 | J | 100 | 26 | ug/L | 5 | | 6010C | Total/NA |
| Barium | 52 | J | 250 | 20 | ug/L | 5 | | 6010C | Dissolved |
| Barium | 50 | J | 250 | 20 | ug/L | 5 | | 6010C | Dissolved |
| Calcium | 72000 | | 5000 | 530 | ug/L | 5 | | 6010C | Dissolved |
| Calcium | 72000 | | 5000 | 530 | ug/L | 5 | | 6010C | Dissolved |
| Iron | 290 | J | 500 | 140 | ug/L | 5 | | 6010C | Dissolved |
| Magnesium | 41000 | | 5000 | 660 | ug/L | 5 | | 6010C | Dissolved |
| Magnesium | 39000 | | 5000 | 660 | ug/L | 5 | | 6010C | Dissolved |
| Manganese | 23 | J | 75 | 17 | ug/L | 5 | | 6010C | Dissolved |
| Manganese | 23 | J | 75 | 17 | ug/L | 5 | | 6010C | Dissolved |
| Sodium | 31000 | ^ | 5000 | 1600 | ug/L | 5 | | 6010C | Dissolved |
| Sodium | 36000 | | 5000 | 1600 | ug/L | 5 | | 6010C | Dissolved |
| Zinc | 48 | J | 100 | 26 | ug/L | 5 | | 6010C | Dissolved |
| Zinc | 40 | J | 100 | 26 | ug/L | 5 | | 6010C | Dissolved |
| Nitrate as N | 0.0080 | J | 0.020 | 0.0040 | mg/L | 1 | | 300.0 | Total/NA |
| Bromide | 0.057 | J | 0.25 | 0.025 | mg/L | 1 | | 300.0 | Total/NA |
| Chloride - DL | 5.3 | | 4.0 | 0.40 | mg/L | 20 | | 300.0 | Total/NA |
| Sulfate - DL | 39 | | 10 | 1.0 | mg/L | 20 | | 300.0 | Total/NA |
| Analyte | Result | Qualifier | RL | RL | Unit | Dil Fac | D | Method | Prep Type |
| Alkalinity | 330 | | 5.0 | 5.0 | mg/L | 1 | | 310.1 | Total/NA |

Client Sample ID: PZ-209-SD

Lab Sample ID: 160-5524-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------|--------|-----------|------|------|------|---------|---|--------|-----------|
| m-Xylene & p-Xylene | 0.76 | J | 5.0 | 0.57 | ug/L | 1 | | 8260C | Total/NA |
| Barium | 44 | J | 250 | 20 | ug/L | 5 | | 6010C | Total/NA |
| Barium | 43 | J | 250 | 20 | ug/L | 5 | | 6010C | Total/NA |
| Calcium | 66000 | | 5000 | 530 | ug/L | 5 | | 6010C | Total/NA |
| Calcium | 66000 | | 5000 | 530 | ug/L | 5 | | 6010C | Total/NA |
| Magnesium | 36000 | | 5000 | 660 | ug/L | 5 | | 6010C | Total/NA |
| Magnesium | 34000 | | 5000 | 660 | ug/L | 5 | | 6010C | Total/NA |
| Sodium | 92000 | ^ | 5000 | 1600 | ug/L | 5 | | 6010C | Total/NA |
| Sodium | 110000 | | 5000 | 1600 | ug/L | 5 | | 6010C | Total/NA |
| Zinc | 56 | J | 100 | 26 | ug/L | 5 | | 6010C | Total/NA |
| Zinc | 46 | J | 100 | 26 | ug/L | 5 | | 6010C | Total/NA |
| Barium | 34 | J | 250 | 20 | ug/L | 5 | | 6010C | Dissolved |
| Barium | 33 | J | 250 | 20 | ug/L | 5 | | 6010C | Dissolved |
| Calcium | 65000 | | 5000 | 530 | ug/L | 5 | | 6010C | Dissolved |

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-209-SD (Continued)

Lab Sample ID: 160-5524-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------|---------|-----------|-------|--------|------|---------|---|--------|-----------|
| Calcium | 65000 | | 5000 | 530 | ug/L | 5 | | 6010C | Dissolved |
| Magnesium | 35000 | | 5000 | 660 | ug/L | 5 | | 6010C | Dissolved |
| Magnesium | 34000 | | 5000 | 660 | ug/L | 5 | | 6010C | Dissolved |
| Sodium | 78000 ^ | | 5000 | 1600 | ug/L | 5 | | 6010C | Dissolved |
| Sodium | 95000 | | 5000 | 1600 | ug/L | 5 | | 6010C | Dissolved |
| Zinc | 56 J | | 100 | 26 | ug/L | 5 | | 6010C | Dissolved |
| Zinc | 48 J | | 100 | 26 | ug/L | 5 | | 6010C | Dissolved |
| Nitrate as N | 0.087 | | 0.020 | 0.0040 | mg/L | 1 | | 300.0 | Total/NA |
| Bromide | 0.080 J | | 0.25 | 0.025 | mg/L | 1 | | 300.0 | Total/NA |
| Chloride - DL | 7.4 | | 4.0 | 0.40 | mg/L | 20 | | 300.0 | Total/NA |
| Sulfate - DL | 50 | | 10 | 1.0 | mg/L | 20 | | 300.0 | Total/NA |
| Analyte | Result | Qualifier | RL | RL | Unit | Dil Fac | D | Method | Prep Type |
| Alkalinity | 380 | | 5.0 | 5.0 | mg/L | 1 | | 310.1 | Total/NA |

Client Sample ID: PZ-209-SS

Lab Sample ID: 160-5524-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|---------|-----------|-------|--------|------|---------|---|--------|-----------|
| Barium | 99 J | | 250 | 20 | ug/L | 5 | | 6010C | Total/NA |
| Barium | 100 J | | 250 | 20 | ug/L | 5 | | 6010C | Total/NA |
| Calcium | 85000 | | 5000 | 530 | ug/L | 5 | | 6010C | Total/NA |
| Calcium | 86000 | | 5000 | 530 | ug/L | 5 | | 6010C | Total/NA |
| Iron | 150 J | | 500 | 140 | ug/L | 5 | | 6010C | Total/NA |
| Iron | 150 J | | 500 | 140 | ug/L | 5 | | 6010C | Total/NA |
| Magnesium | 49000 | | 5000 | 660 | ug/L | 5 | | 6010C | Total/NA |
| Magnesium | 46000 | | 5000 | 660 | ug/L | 5 | | 6010C | Total/NA |
| Manganese | 80 | | 75 | 17 | ug/L | 5 | | 6010C | Total/NA |
| Manganese | 79 | | 75 | 17 | ug/L | 5 | | 6010C | Total/NA |
| Sodium | 20000 ^ | | 5000 | 1600 | ug/L | 5 | | 6010C | Total/NA |
| Sodium | 25000 | | 5000 | 1600 | ug/L | 5 | | 6010C | Total/NA |
| Zinc | 48 J | | 100 | 26 | ug/L | 5 | | 6010C | Total/NA |
| Zinc | 39 J | | 100 | 26 | ug/L | 5 | | 6010C | Total/NA |
| Barium | 92 J | | 250 | 20 | ug/L | 5 | | 6010C | Dissolved |
| Barium | 93 J | | 250 | 20 | ug/L | 5 | | 6010C | Dissolved |
| Calcium | 83000 | | 5000 | 530 | ug/L | 5 | | 6010C | Dissolved |
| Calcium | 84000 | | 5000 | 530 | ug/L | 5 | | 6010C | Dissolved |
| Lead | 8.5 J | | 50 | 7.5 | ug/L | 5 | | 6010C | Dissolved |
| Magnesium | 48000 | | 5000 | 660 | ug/L | 5 | | 6010C | Dissolved |
| Magnesium | 47000 | | 5000 | 660 | ug/L | 5 | | 6010C | Dissolved |
| Manganese | 82 | | 75 | 17 | ug/L | 5 | | 6010C | Dissolved |
| Manganese | 80 | | 75 | 17 | ug/L | 5 | | 6010C | Dissolved |
| Sodium | 16000 ^ | | 5000 | 1600 | ug/L | 5 | | 6010C | Dissolved |
| Sodium | 20000 ^ | | 5000 | 1600 | ug/L | 5 | | 6010C | Dissolved |
| Zinc | 43 J | | 100 | 26 | ug/L | 5 | | 6010C | Dissolved |
| Zinc | 39 J | | 100 | 26 | ug/L | 5 | | 6010C | Dissolved |
| Nitrate as N | 0.085 | | 0.020 | 0.0040 | mg/L | 1 | | 300.0 | Total/NA |
| Chloride | 4.2 | | 0.20 | 0.020 | mg/L | 1 | | 300.0 | Total/NA |
| Bromide | 0.19 J | | 0.25 | 0.025 | mg/L | 1 | | 300.0 | Total/NA |
| Sulfate - DL | 38 | | 10 | 1.0 | mg/L | 20 | | 300.0 | Total/NA |
| Analyte | Result | Qualifier | RL | RL | Unit | Dil Fac | D | Method | Prep Type |
| Alkalinity | 360 | | 5.0 | 5.0 | mg/L | 1 | | 310.1 | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-212-SS

Lab Sample ID: 160-5524-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------|--------|-----------|-------|--------|------|---------|-------|-----------|-----------|
| Aluminum | 980 | J | 1000 | 400 | ug/L | 5 | 6010C | Total/NA | |
| Aluminum | 1100 | | 1000 | 400 | ug/L | 5 | 6010C | Total/NA | |
| Barium | 110 | J | 250 | 20 | ug/L | 5 | 6010C | Total/NA | |
| Barium | 110 | J | 250 | 20 | ug/L | 5 | 6010C | Total/NA | |
| Calcium | 88000 | | 5000 | 530 | ug/L | 5 | 6010C | Total/NA | |
| Calcium | 86000 | | 5000 | 530 | ug/L | 5 | 6010C | Total/NA | |
| Iron | 900 | | 500 | 140 | ug/L | 5 | 6010C | Total/NA | |
| Iron | 890 | | 500 | 140 | ug/L | 5 | 6010C | Total/NA | |
| Magnesium | 43000 | | 5000 | 660 | ug/L | 5 | 6010C | Total/NA | |
| Magnesium | 40000 | | 5000 | 660 | ug/L | 5 | 6010C | Total/NA | |
| Manganese | 57 | J | 75 | 17 | ug/L | 5 | 6010C | Total/NA | |
| Manganese | 58 | J | 75 | 17 | ug/L | 5 | 6010C | Total/NA | |
| Selenium | 17 | J | 75 | 13 | ug/L | 5 | 6010C | Total/NA | |
| Sodium | 24000 | ^ | 5000 | 1600 | ug/L | 5 | 6010C | Total/NA | |
| Sodium | 28000 | | 5000 | 1600 | ug/L | 5 | 6010C | Total/NA | |
| Zinc | 59 | J | 100 | 26 | ug/L | 5 | 6010C | Total/NA | |
| Zinc | 45 | J | 100 | 26 | ug/L | 5 | 6010C | Total/NA | |
| Barium | 110 | J | 250 | 20 | ug/L | 5 | 6010C | Dissolved | |
| Barium | 110 | J | 250 | 20 | ug/L | 5 | 6010C | Dissolved | |
| Calcium | 88000 | | 5000 | 530 | ug/L | 5 | 6010C | Dissolved | |
| Calcium | 88000 | | 5000 | 530 | ug/L | 5 | 6010C | Dissolved | |
| Magnesium | 43000 | | 5000 | 660 | ug/L | 5 | 6010C | Dissolved | |
| Magnesium | 41000 | | 5000 | 660 | ug/L | 5 | 6010C | Dissolved | |
| Manganese | 23 | J | 75 | 17 | ug/L | 5 | 6010C | Dissolved | |
| Manganese | 24 | J | 75 | 17 | ug/L | 5 | 6010C | Dissolved | |
| Sodium | 25000 | ^ | 5000 | 1600 | ug/L | 5 | 6010C | Dissolved | |
| Sodium | 25000 | ^ | 5000 | 1600 | ug/L | 5 | 6010C | Dissolved | |
| Zinc | 48 | J | 100 | 26 | ug/L | 5 | 6010C | Dissolved | |
| Zinc | 41 | J | 100 | 26 | ug/L | 5 | 6010C | Dissolved | |
| Nitrate as N | 0.068 | | 0.020 | 0.0040 | mg/L | 1 | 300.0 | Total/NA | |
| Bromide | 0.14 | J | 0.25 | 0.025 | mg/L | 1 | 300.0 | Total/NA | |
| Chloride - DL | 49 | | 4.0 | 0.40 | mg/L | 20 | 300.0 | Total/NA | |
| Sulfate - DL | 49 | | 10 | 1.0 | mg/L | 20 | 300.0 | Total/NA | |
| Analyte | Result | Qualifier | RL | RL | Unit | Dil Fac | D | Method | Prep Type |
| Alkalinity | 290 | | 5.0 | 5.0 | mg/L | 1 | 310.1 | Total/NA | |

Client Sample ID: DUPLICATE 01

Lab Sample ID: 160-5524-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|-------|------|------|---------|-------|----------|-----------|
| Barium | 35 | J | 250 | 20 | ug/L | 5 | 6010C | Total/NA | |
| Barium | 34 | J | 250 | 20 | ug/L | 5 | 6010C | Total/NA | |
| Calcium | 63000 | | 5000 | 530 | ug/L | 5 | 6010C | Total/NA | |
| Calcium | 62000 | | 5000 | 530 | ug/L | 5 | 6010C | Total/NA | |
| Magnesium | 28000 | | 5000 | 660 | ug/L | 5 | 6010C | Total/NA | |
| Magnesium | 27000 | | 5000 | 660 | ug/L | 5 | 6010C | Total/NA | |
| Manganese | 19 | J | 75 | 17 | ug/L | 5 | 6010C | Total/NA | |
| Manganese | 20 | J | 75 | 17 | ug/L | 5 | 6010C | Total/NA | |
| Potassium | 9200 | J | 25000 | 8300 | ug/L | 5 | 6010C | Total/NA | |
| Sodium | 120000 | ^ | 5000 | 1600 | ug/L | 5 | 6010C | Total/NA | |
| Sodium | 140000 | | 5000 | 1600 | ug/L | 5 | 6010C | Total/NA | |

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: DUPLICATE 01 (Continued)

Lab Sample ID: 160-5524-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------|--------|-----------|-------|--------|------|---------|---|--------|-----------|
| Zinc | 52 | J | 100 | 26 | ug/L | 5 | | 6010C | Total/NA |
| Zinc | 42 | J | 100 | 26 | ug/L | 5 | | 6010C | Total/NA |
| Calcium | 63000 | | 5000 | 530 | ug/L | 5 | | 6010C | Dissolved |
| Calcium | 63000 | | 5000 | 530 | ug/L | 5 | | 6010C | Dissolved |
| Magnesium | 29000 | | 5000 | 660 | ug/L | 5 | | 6010C | Dissolved |
| Magnesium | 26000 | | 5000 | 660 | ug/L | 5 | | 6010C | Dissolved |
| Manganese | 19 | J | 75 | 17 | ug/L | 5 | | 6010C | Dissolved |
| Manganese | 19 | J | 75 | 17 | ug/L | 5 | | 6010C | Dissolved |
| Potassium | 8900 | J ^ | 25000 | 8300 | ug/L | 5 | | 6010C | Dissolved |
| Potassium | 8700 | J ^ | 25000 | 8300 | ug/L | 5 | | 6010C | Dissolved |
| Sodium | 130000 | ^ | 5000 | 1600 | ug/L | 5 | | 6010C | Dissolved |
| Sodium | 130000 | ^ | 5000 | 1600 | ug/L | 5 | | 6010C | Dissolved |
| Zinc | 56 | J | 100 | 26 | ug/L | 5 | | 6010C | Dissolved |
| Zinc | 48 | J | 100 | 26 | ug/L | 5 | | 6010C | Dissolved |
| Nitrate as N | 0.068 | | 0.020 | 0.0040 | mg/L | 1 | | 300.0 | Total/NA |
| Bromide | 0.11 | J | 0.25 | 0.025 | mg/L | 1 | | 300.0 | Total/NA |
| Chloride - DL | 26 | | 4.0 | 0.40 | mg/L | 20 | | 300.0 | Total/NA |
| Sulfate - DL | 79 | | 10 | 1.0 | mg/L | 20 | | 300.0 | Total/NA |
| Analyte | Result | Qualifier | RL | RL | Unit | Dil Fac | D | Method | Prep Type |
| Alkalinity | 370 | | 5.0 | 5.0 | mg/L | 1 | | 310.1 | Total/NA |

Client Sample ID: TRIP BLANK

Lab Sample ID: 160-5524-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| Acetone | 8.0 | J * | 20 | 6.7 | ug/L | 1 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-211-SD

Date Collected: 02/12/14 08:25

Date Received: 02/12/14 14:54

Lab Sample ID: 160-5524-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone | 9.5 | J * | 20 | 6.7 | ug/L | | | 02/13/14 23:41 | 1 |
| Benzene | ND | | 5.0 | 0.25 | ug/L | | | 02/13/14 23:41 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.25 | ug/L | | | 02/13/14 23:41 | 1 |
| Bromoform | ND | | 5.0 | 0.37 | ug/L | | | 02/13/14 23:41 | 1 |
| Bromomethane | ND | | 10 | 0.40 | ug/L | | | 02/13/14 23:41 | 1 |
| 2-Butanone (MEK) | ND | | 20 | 0.39 | ug/L | | | 02/13/14 23:41 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.37 | ug/L | | | 02/13/14 23:41 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.36 | ug/L | | | 02/13/14 23:41 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.38 | ug/L | | | 02/13/14 23:41 | 1 |
| Chloroethane | ND | | 10 | 0.38 | ug/L | | | 02/13/14 23:41 | 1 |
| Chloroform | ND | | 5.0 | 0.15 | ug/L | | | 02/13/14 23:41 | 1 |
| Chloromethane | ND | | 10 | 0.55 | ug/L | | | 02/13/14 23:41 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.16 | ug/L | | | 02/13/14 23:41 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.34 | ug/L | | | 02/13/14 23:41 | 1 |
| Cyclohexane | ND | | 10 | 0.36 | ug/L | | | 02/13/14 23:41 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.33 | ug/L | | | 02/13/14 23:41 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | 1.2 | ug/L | | | 02/13/14 23:41 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.44 | ug/L | | | 02/13/14 23:41 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.28 | ug/L | | | 02/13/14 23:41 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.23 | ug/L | | | 02/13/14 23:41 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.35 | ug/L | | | 02/13/14 23:41 | 1 |
| Dichlorodifluoromethane | ND | | 10 | 0.45 | ug/L | | | 02/13/14 23:41 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.39 | ug/L | | | 02/13/14 23:41 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.37 | ug/L | | | 02/13/14 23:41 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.37 | ug/L | | | 02/13/14 23:41 | 1 |
| 1,2-Dichloropropene | ND | | 5.0 | 0.32 | ug/L | | | 02/13/14 23:41 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 02/13/14 23:41 | 1 |
| 2-Hexanone | ND | | 20 | 0.59 | ug/L | | | 02/13/14 23:41 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.26 | ug/L | | | 02/13/14 23:41 | 1 |
| Methyl acetate | ND | | 25 | 2.3 | ug/L | | | 02/13/14 23:41 | 1 |
| Methylcyclohexane | ND | | 10 | 0.26 | ug/L | | | 02/13/14 23:41 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.7 | ug/L | | | 02/13/14 23:41 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 20 | 0.33 | ug/L | | | 02/13/14 23:41 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 0.40 | ug/L | | | 02/13/14 23:41 | 1 |
| m-Xylene & p-Xylene | ND | | 5.0 | 0.57 | ug/L | | | 02/13/14 23:41 | 1 |
| o-Xylene | ND | | 5.0 | 0.32 | ug/L | | | 02/13/14 23:41 | 1 |
| Styrene | ND | | 5.0 | 0.35 | ug/L | | | 02/13/14 23:41 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.43 | ug/L | | | 02/13/14 23:41 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.28 | ug/L | | | 02/13/14 23:41 | 1 |
| Toluene | ND | | 5.0 | 1.0 | ug/L | | | 02/13/14 23:41 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.18 | ug/L | | | 02/13/14 23:41 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.35 | ug/L | | | 02/13/14 23:41 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.55 | ug/L | | | 02/13/14 23:41 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.29 | ug/L | | | 02/13/14 23:41 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.57 | ug/L | | | 02/13/14 23:41 | 1 |
| Trichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 02/13/14 23:41 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 0.22 | ug/L | | | 02/13/14 23:41 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.43 | ug/L | | | 02/13/14 23:41 | 1 |
| Xylenes, Total | ND | | 10 | 0.85 | ug/L | | | 02/13/14 23:41 | 1 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-211-SD

Lab Sample ID: 160-5524-1

Matrix: Water

Date Collected: 02/12/14 08:25

Date Received: 02/12/14 14:54

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 75 - 123 | | 02/13/14 23:41 | 1 |
| Dibromofluoromethane (Surr) | 98 | | 80 - 120 | | 02/13/14 23:41 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 78 - 127 | | 02/13/14 23:41 | 1 |
| Toluene-d8 (Surr) | 96 | | 80 - 120 | | 02/13/14 23:41 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|----------------|-----------|-------|------|------|---|----------------|----------------|---------|
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Aluminum | ND | | 10000 | 4000 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Aluminum | ND | | 2000 | 800 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Antimony | ND | | 500 | 200 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Antimony | ND | | 100 | 40 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Arsenic | ND | | 500 | 99 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Arsenic | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Barium | 35 J | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Barium | ND | | 2500 | 200 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Barium | ND | | 500 | 40 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Barium | 34 J | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Beryllium | 35 J | | 250 | 31 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Beryllium | ND | | 50 | 6.1 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Cadmium | 65 J | | 250 | 46 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Cadmium | ND | | 50 | 9.1 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Calcium | 64000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Calcium | 66000 | | 50000 | 5300 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Calcium | 64000 | | 10000 | 1100 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Calcium | 65000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Chromium | 330 J ^ | | 500 | 160 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Chromium | 59 J ^ | | 100 | 31 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Cobalt | ND | | 2500 | 250 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Cobalt | ND | | 500 | 49 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Copper | ND | | 1300 | 230 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Copper | ND | | 250 | 46 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Iron | 140 J | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Iron | ND | | 5000 | 1400 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Iron | ND | | 1000 | 280 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-211-SD

Lab Sample ID: 160-5524-1

Matrix: Water

Date Collected: 02/12/14 08:25

Date Received: 02/12/14 14:54

Method: 6010C - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|-------|------|---|----------------|----------------|---------|
| Iron | 140 | J | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Lead | 95 | J | 500 | 75 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Lead | ND | | 100 | 15 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Magnesium | 29000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Magnesium | 28000 | J | 50000 | 6600 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Magnesium | 28000 | | 10000 | 1300 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Magnesium | 28000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Manganese | 21 | J | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Manganese | ND | | 750 | 170 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Manganese | ND | | 150 | 33 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Manganese | 21 | J | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Nickel | ND | | 2000 | 670 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Nickel | ND | | 400 | 130 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Potassium | 8900 | J ^ | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Potassium | ND | | 250000 | 83000 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Potassium | ND | | 50000 | 17000 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Potassium | ND | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Selenium | ND | | 750 | 130 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Selenium | ND | | 150 | 27 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Silver | ND | | 500 | 300 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Silver | ND | | 100 | 60 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Sodium | OVER | E ^ | 5000 | 1600 | ppm | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Sodium | 120000 | | 50000 | 16000 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Sodium | 130000 | | 10000 | 3200 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Sodium | 120000 | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Thallium | ND | | 1000 | 200 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Thallium | ND | | 200 | 40 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Vanadium | ND | | 2500 | 200 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Vanadium | ND | | 500 | 41 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |
| Zinc | 60 | J | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/18/14 19:36 | 5 |
| Zinc | 470 | J | 1000 | 260 | ug/L | | 02/14/14 10:32 | 02/19/14 13:51 | 50 |
| Zinc | 82 | J | 200 | 52 | ug/L | | 02/14/14 10:32 | 02/19/14 14:21 | 10 |
| Zinc | 51 | J | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/21/14 16:04 | 5 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-211-SD
Date Collected: 02/12/14 08:25
Date Received: 02/12/14 14:54

Lab Sample ID: 160-5524-1
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-----------------|-----------|-------|------|------|---|----------------|----------------|---------|
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Barium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Barium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Calcium | 63000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Calcium | 64000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Iron | ND | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Iron | ND | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Magnesium | 28000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Magnesium | 27000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Manganese | 19 J | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Manganese | 19 J | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Potassium | ND ^ | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Potassium | 9200 J | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Sodium | 120000 ^ | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Sodium | 140000 | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |
| Zinc | 53 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/18/14 20:10 | 5 |
| Zinc | 44 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/21/14 16:47 | 5 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.060 | ug/L | | 02/13/14 09:56 | 02/13/14 15:29 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.060 | ug/L | | 02/13/14 09:56 | 02/13/14 15:10 | 1 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-211-SD
Date Collected: 02/12/14 08:25
Date Received: 02/12/14 14:54

Lab Sample ID: 160-5524-1
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Nitrate as N | 0.080 | | 0.020 | 0.0040 | mg/L | | | 02/13/14 02:16 | 1 |
| Bromide | 0.12 | J | 0.25 | 0.025 | mg/L | | | 02/13/14 02:16 | 1 |
| Iodide | ND | | 1.0 | 0.10 | mg/L | | | 02/24/14 21:00 | 1 |
| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Alkalinity | 340 | | 5.0 | 5.0 | mg/L | | | 02/23/14 17:43 | 1 |

General Chemistry - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride | 27 | | 4.0 | 0.40 | mg/L | | | 02/13/14 02:33 | 20 |
| Sulfate | 78 | | 10 | 1.0 | mg/L | | | 02/13/14 02:33 | 20 |

Client Sample ID: PZ-211-SS

Lab Sample ID: 160-5524-2
Matrix: Water

Date Collected: 02/12/14 09:45

Date Received: 02/12/14 14:54

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone | ND | * | 20 | 6.7 | ug/L | | | 02/14/14 01:22 | 1 |
| Benzene | ND | | 5.0 | 0.25 | ug/L | | | 02/14/14 01:22 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.25 | ug/L | | | 02/14/14 01:22 | 1 |
| Bromoform | ND | | 5.0 | 0.37 | ug/L | | | 02/14/14 01:22 | 1 |
| Bromomethane | ND | | 10 | 0.40 | ug/L | | | 02/14/14 01:22 | 1 |
| 2-Butanone (MEK) | ND | | 20 | 0.39 | ug/L | | | 02/14/14 01:22 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.37 | ug/L | | | 02/14/14 01:22 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.36 | ug/L | | | 02/14/14 01:22 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.38 | ug/L | | | 02/14/14 01:22 | 1 |
| Chloroethane | ND | | 10 | 0.38 | ug/L | | | 02/14/14 01:22 | 1 |
| Chloroform | ND | | 5.0 | 0.15 | ug/L | | | 02/14/14 01:22 | 1 |
| Chloromethane | ND | | 10 | 0.55 | ug/L | | | 02/14/14 01:22 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.16 | ug/L | | | 02/14/14 01:22 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.34 | ug/L | | | 02/14/14 01:22 | 1 |
| Cyclohexane | ND | | 10 | 0.36 | ug/L | | | 02/14/14 01:22 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.33 | ug/L | | | 02/14/14 01:22 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | 1.2 | ug/L | | | 02/14/14 01:22 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.44 | ug/L | | | 02/14/14 01:22 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.28 | ug/L | | | 02/14/14 01:22 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.23 | ug/L | | | 02/14/14 01:22 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.35 | ug/L | | | 02/14/14 01:22 | 1 |
| Dichlorodifluoromethane | ND | | 10 | 0.45 | ug/L | | | 02/14/14 01:22 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.39 | ug/L | | | 02/14/14 01:22 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.37 | ug/L | | | 02/14/14 01:22 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.37 | ug/L | | | 02/14/14 01:22 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.32 | ug/L | | | 02/14/14 01:22 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 02/14/14 01:22 | 1 |
| 2-Hexanone | ND | | 20 | 0.59 | ug/L | | | 02/14/14 01:22 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.26 | ug/L | | | 02/14/14 01:22 | 1 |
| Methyl acetate | ND | | 25 | 2.3 | ug/L | | | 02/14/14 01:22 | 1 |
| Methylcyclohexane | ND | | 10 | 0.26 | ug/L | | | 02/14/14 01:22 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.7 | ug/L | | | 02/14/14 01:22 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 20 | 0.33 | ug/L | | | 02/14/14 01:22 | 1 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-211-SS

Lab Sample ID: 160-5524-2

Date Collected: 02/12/14 09:45

Matrix: Water

Date Received: 02/12/14 14:54

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Methyl tert-butyl ether | ND | | 5.0 | 0.40 | ug/L | | | 02/14/14 01:22 | 1 |
| m-Xylene & p-Xylene | ND | | 5.0 | 0.57 | ug/L | | | 02/14/14 01:22 | 1 |
| o-Xylene | ND | | 5.0 | 0.32 | ug/L | | | 02/14/14 01:22 | 1 |
| Styrene | ND | | 5.0 | 0.35 | ug/L | | | 02/14/14 01:22 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.43 | ug/L | | | 02/14/14 01:22 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.28 | ug/L | | | 02/14/14 01:22 | 1 |
| Toluene | ND | | 5.0 | 1.0 | ug/L | | | 02/14/14 01:22 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.18 | ug/L | | | 02/14/14 01:22 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.35 | ug/L | | | 02/14/14 01:22 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.55 | ug/L | | | 02/14/14 01:22 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.29 | ug/L | | | 02/14/14 01:22 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.57 | ug/L | | | 02/14/14 01:22 | 1 |
| Trichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 02/14/14 01:22 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 0.22 | ug/L | | | 02/14/14 01:22 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.43 | ug/L | | | 02/14/14 01:22 | 1 |
| Xylenes, Total | ND | | 10 | 0.85 | ug/L | | | 02/14/14 01:22 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108 | | 75 - 123 | | 02/14/14 01:22 | 1 |
| Dibromofluoromethane (Surr) | 94 | | 80 - 120 | | 02/14/14 01:22 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 78 - 127 | | 02/14/14 01:22 | 1 |
| Toluene-d8 (Surr) | 98 | | 80 - 120 | | 02/14/14 01:22 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-----|------|---|----------|----------------|----------------|
| Aluminum | ND | | 1000 | 400 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:39 |
| Aluminum | ND | | 1000 | 400 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:08 |
| Antimony | ND | | 50 | 20 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:39 |
| Antimony | ND | | 50 | 20 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:08 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:39 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:08 |
| Barium | 50 J | | 250 | 20 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:39 |
| Barium | 51 J | | 250 | 20 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:08 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:39 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:08 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:39 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:08 |
| Calcium | 71000 | | 5000 | 530 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:39 |
| Calcium | 72000 | | 5000 | 530 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:08 |
| Chromium | ND | | 50 | 16 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:39 |
| Chromium | ND | | 50 | 16 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:08 |
| Cobalt | ND | | 250 | 25 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:39 |
| Cobalt | ND | | 250 | 25 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:08 |
| Copper | ND | | 130 | 23 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:39 |
| Copper | ND | | 130 | 23 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:08 |
| Iron | ND | | 500 | 140 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:39 |
| Iron | ND | | 500 | 140 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:08 |
| Lead | ND | | 50 | 7.5 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:39 |
| Lead | 8.0 J | | 50 | 7.5 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:08 |
| Magnesium | 41000 | | 5000 | 660 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:39 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-211-SS

Lab Sample ID: 160-5524-2

Matrix: Water

Date Collected: 02/12/14 09:45

Date Received: 02/12/14 14:54

Method: 6010C - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|-------|------|------|---|----------------|----------------|---------|
| Magnesium | 40000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/21/14 16:08 | 5 |
| Manganese | 22 J | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/18/14 19:39 | 5 |
| Manganese | 21 J | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/21/14 16:08 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/18/14 19:39 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/21/14 16:08 | 5 |
| Potassium | ND ^ | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/18/14 19:39 | 5 |
| Potassium | ND | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/21/14 16:08 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/18/14 19:39 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/21/14 16:08 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/18/14 19:39 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/21/14 16:08 | 5 |
| Sodium | 31000 ^ | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/18/14 19:39 | 5 |
| Sodium | 37000 | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/21/14 16:08 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:39 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:08 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:39 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:08 | 5 |
| Zinc | 60 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/18/14 19:39 | 5 |
| Zinc | 50 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/21/14 16:08 | 5 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Barium | 52 J | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Barium | 50 J | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Calcium | 72000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Calcium | 72000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Iron | ND | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Iron | 290 J | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Magnesium | 41000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Magnesium | 39000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Manganese | 23 J | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Manganese | 23 J | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-211-SS

Lab Sample ID: 160-5524-2

Matrix: Water

Date Collected: 02/12/14 09:45
Date Received: 02/12/14 14:54

Method: 6010C - Metals (ICP) - Dissolved (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------------|-----------|-------|------|------|---|----------------|----------------|---------|
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Potassium | ND ^ | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Potassium | ND | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Sodium | 31000 ^ | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Sodium | 36000 | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |
| Zinc | 48 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/18/14 20:22 | 5 |
| Zinc | 40 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/21/14 16:51 | 5 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.060 | ug/L | | 02/13/14 09:56 | 02/13/14 15:31 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.060 | ug/L | | 02/13/14 09:56 | 02/13/14 15:21 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------------|-----------|-------|--------|------|---|----------|----------------|---------|
| Nitrate as N | 0.0080 J | | 0.020 | 0.0040 | mg/L | | | 02/13/14 01:27 | 1 |
| Bromide | 0.057 J | | 0.25 | 0.025 | mg/L | | | 02/13/14 01:27 | 1 |
| Iodide | ND | | 1.0 | 0.10 | mg/L | | | 02/24/14 21:13 | 1 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Alkalinity | 330 | | 5.0 | 5.0 | mg/L | | | 02/19/14 18:18 | 1 |

General Chemistry - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride | 5.3 | | 4.0 | 0.40 | mg/L | | | 02/13/14 01:43 | 20 |
| Sulfate | 39 | | 10 | 1.0 | mg/L | | | 02/13/14 01:43 | 20 |

Client Sample ID: PZ-209-SD

Lab Sample ID: 160-5524-3

Matrix: Water

Date Collected: 02/12/14 10:40
Date Received: 02/12/14 14:54

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone | ND * | | 20 | 6.7 | ug/L | | | 02/14/14 01:47 | 1 |
| Benzene | ND | | 5.0 | 0.25 | ug/L | | | 02/14/14 01:47 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.25 | ug/L | | | 02/14/14 01:47 | 1 |
| Bromoform | ND | | 5.0 | 0.37 | ug/L | | | 02/14/14 01:47 | 1 |
| Bromomethane | ND | | 10 | 0.40 | ug/L | | | 02/14/14 01:47 | 1 |
| 2-Butanone (MEK) | ND | | 20 | 0.39 | ug/L | | | 02/14/14 01:47 | 1 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-209-SD
Date Collected: 02/12/14 10:40
Date Received: 02/12/14 14:54

Lab Sample ID: 160-5524-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Carbon disulfide | ND | | 5.0 | 0.37 | ug/L | | 02/14/14 01:47 | | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.36 | ug/L | | 02/14/14 01:47 | | 1 |
| Chlorobenzene | ND | | 5.0 | 0.38 | ug/L | | 02/14/14 01:47 | | 1 |
| Chloroethane | ND | | 10 | 0.38 | ug/L | | 02/14/14 01:47 | | 1 |
| Chloroform | ND | | 5.0 | 0.15 | ug/L | | 02/14/14 01:47 | | 1 |
| Chloromethane | ND | | 10 | 0.55 | ug/L | | 02/14/14 01:47 | | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.16 | ug/L | | 02/14/14 01:47 | | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.34 | ug/L | | 02/14/14 01:47 | | 1 |
| Cyclohexane | ND | | 10 | 0.36 | ug/L | | 02/14/14 01:47 | | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.33 | ug/L | | 02/14/14 01:47 | | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | 1.2 | ug/L | | 02/14/14 01:47 | | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.44 | ug/L | | 02/14/14 01:47 | | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.28 | ug/L | | 02/14/14 01:47 | | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.23 | ug/L | | 02/14/14 01:47 | | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.35 | ug/L | | 02/14/14 01:47 | | 1 |
| Dichlorodifluoromethane | ND | | 10 | 0.45 | ug/L | | 02/14/14 01:47 | | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.39 | ug/L | | 02/14/14 01:47 | | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.37 | ug/L | | 02/14/14 01:47 | | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.37 | ug/L | | 02/14/14 01:47 | | 1 |
| 1,2-Dichloropropene | ND | | 5.0 | 0.32 | ug/L | | 02/14/14 01:47 | | 1 |
| Ethylbenzene | ND | | 5.0 | 0.30 | ug/L | | 02/14/14 01:47 | | 1 |
| 2-Hexanone | ND | | 20 | 0.59 | ug/L | | 02/14/14 01:47 | | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.26 | ug/L | | 02/14/14 01:47 | | 1 |
| Methyl acetate | ND | | 25 | 2.3 | ug/L | | 02/14/14 01:47 | | 1 |
| Methylcyclohexane | ND | | 10 | 0.26 | ug/L | | 02/14/14 01:47 | | 1 |
| Methylene Chloride | ND | | 5.0 | 1.7 | ug/L | | 02/14/14 01:47 | | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 20 | 0.33 | ug/L | | 02/14/14 01:47 | | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 0.40 | ug/L | | 02/14/14 01:47 | | 1 |
| m-Xylene & p-Xylene | 0.76 J | | 5.0 | 0.57 | ug/L | | 02/14/14 01:47 | | 1 |
| o-Xylene | ND | | 5.0 | 0.32 | ug/L | | 02/14/14 01:47 | | 1 |
| Styrene | ND | | 5.0 | 0.35 | ug/L | | 02/14/14 01:47 | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.43 | ug/L | | 02/14/14 01:47 | | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.28 | ug/L | | 02/14/14 01:47 | | 1 |
| Toluene | ND | | 5.0 | 1.0 | ug/L | | 02/14/14 01:47 | | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.18 | ug/L | | 02/14/14 01:47 | | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.35 | ug/L | | 02/14/14 01:47 | | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.55 | ug/L | | 02/14/14 01:47 | | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.29 | ug/L | | 02/14/14 01:47 | | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.57 | ug/L | | 02/14/14 01:47 | | 1 |
| Trichloroethene | ND | | 5.0 | 0.29 | ug/L | | 02/14/14 01:47 | | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 0.22 | ug/L | | 02/14/14 01:47 | | 1 |
| Vinyl chloride | ND | | 5.0 | 0.43 | ug/L | | 02/14/14 01:47 | | 1 |
| Xylenes, Total | ND | | 10 | 0.85 | ug/L | | 02/14/14 01:47 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 4-Bromofluorobenzene (Surr) | 105 | | 75 - 123 | | | | 02/14/14 01:47 | | 1 |
| Dibromofluoromethane (Surr) | 99 | | 80 - 120 | | | | 02/14/14 01:47 | | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 78 - 127 | | | | 02/14/14 01:47 | | 1 |
| Toluene-d8 (Surr) | 99 | | 80 - 120 | | | | 02/14/14 01:47 | | 1 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-209-SD

Lab Sample ID: 160-5524-3

Date Collected: 02/12/14 10:40
Date Received: 02/12/14 14:54

Matrix: Water

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|----------------|-----------|-------|------|------|---|----------------|----------------|---------|
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Barium | 44 J | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Barium | 43 J | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Calcium | 66000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Calcium | 66000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Iron | ND | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Iron | ND | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Magnesium | 36000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Magnesium | 34000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Manganese | ND | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Manganese | ND | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Potassium | ND ^ | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Potassium | ND | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Sodium | 92000 ^ | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Sodium | 110000 | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |
| Zinc | 56 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/18/14 19:43 | 5 |
| Zinc | 46 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/21/14 16:20 | 5 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-209-SD

Lab Sample ID: 160-5524-3

Date Collected: 02/12/14 10:40

Matrix: Water

Date Received: 02/12/14 14:54

Method: 6010C - Metals (ICP) - Dissolved (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|----------------|-----------|-------|------|------|---|----------------|----------------|---------|
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Barium | 34 J | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Barium | 33 J | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Calcium | 65000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Calcium | 65000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Iron | ND | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Iron | ND | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Magnesium | 35000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Magnesium | 34000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Manganese | ND | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Manganese | ND | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Potassium | ND ^ | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Potassium | ND | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Sodium | 78000 ^ | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Sodium | 95000 | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |
| Zinc | 56 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/18/14 20:26 | 5 |
| Zinc | 48 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/21/14 16:55 | 5 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.060 | ug/L | | 02/13/14 09:56 | 02/13/14 15:36 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.060 | ug/L | | 02/13/14 09:56 | 02/13/14 15:23 | 1 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-209-SD
Date Collected: 02/12/14 10:40
Date Received: 02/12/14 14:54

Lab Sample ID: 160-5524-3
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Nitrate as N | 0.087 | | 0.020 | 0.0040 | mg/L | | | 02/13/14 17:10 | 1 |
| Bromide | 0.080 | J | 0.25 | 0.025 | mg/L | | | 02/13/14 17:10 | 1 |
| Iodide | ND | | 1.0 | 0.10 | mg/L | | | 02/24/14 21:27 | 1 |
| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Alkalinity | 380 | | 5.0 | 5.0 | mg/L | | | 02/23/14 17:14 | 1 |

General Chemistry - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride | 7.4 | | 4.0 | 0.40 | mg/L | | | 02/13/14 17:27 | 20 |
| Sulfate | 50 | | 10 | 1.0 | mg/L | | | 02/13/14 17:27 | 20 |

Client Sample ID: PZ-209-SS

Lab Sample ID: 160-5524-4
Matrix: Water

Date Collected: 02/12/14 11:20
Date Received: 02/12/14 14:54

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone | ND | * | 20 | 6.7 | ug/L | | | 02/14/14 02:12 | 1 |
| Benzene | ND | | 5.0 | 0.25 | ug/L | | | 02/14/14 02:12 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.25 | ug/L | | | 02/14/14 02:12 | 1 |
| Bromoform | ND | | 5.0 | 0.37 | ug/L | | | 02/14/14 02:12 | 1 |
| Bromomethane | ND | | 10 | 0.40 | ug/L | | | 02/14/14 02:12 | 1 |
| 2-Butanone (MEK) | ND | | 20 | 0.39 | ug/L | | | 02/14/14 02:12 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.37 | ug/L | | | 02/14/14 02:12 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.36 | ug/L | | | 02/14/14 02:12 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.38 | ug/L | | | 02/14/14 02:12 | 1 |
| Chloroethane | ND | | 10 | 0.38 | ug/L | | | 02/14/14 02:12 | 1 |
| Chloroform | ND | | 5.0 | 0.15 | ug/L | | | 02/14/14 02:12 | 1 |
| Chloromethane | ND | | 10 | 0.55 | ug/L | | | 02/14/14 02:12 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.16 | ug/L | | | 02/14/14 02:12 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.34 | ug/L | | | 02/14/14 02:12 | 1 |
| Cyclohexane | ND | | 10 | 0.36 | ug/L | | | 02/14/14 02:12 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.33 | ug/L | | | 02/14/14 02:12 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | 1.2 | ug/L | | | 02/14/14 02:12 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.44 | ug/L | | | 02/14/14 02:12 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.28 | ug/L | | | 02/14/14 02:12 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.23 | ug/L | | | 02/14/14 02:12 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.35 | ug/L | | | 02/14/14 02:12 | 1 |
| Dichlorodifluoromethane | ND | | 10 | 0.45 | ug/L | | | 02/14/14 02:12 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.39 | ug/L | | | 02/14/14 02:12 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.37 | ug/L | | | 02/14/14 02:12 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.37 | ug/L | | | 02/14/14 02:12 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.32 | ug/L | | | 02/14/14 02:12 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 02/14/14 02:12 | 1 |
| 2-Hexanone | ND | | 20 | 0.59 | ug/L | | | 02/14/14 02:12 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.26 | ug/L | | | 02/14/14 02:12 | 1 |
| Methyl acetate | ND | | 25 | 2.3 | ug/L | | | 02/14/14 02:12 | 1 |
| Methylcyclohexane | ND | | 10 | 0.26 | ug/L | | | 02/14/14 02:12 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.7 | ug/L | | | 02/14/14 02:12 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 20 | 0.33 | ug/L | | | 02/14/14 02:12 | 1 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-209-SS

Lab Sample ID: 160-5524-4

Date Collected: 02/12/14 11:20

Matrix: Water

Date Received: 02/12/14 14:54

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------------|----------|---------|
| Methyl tert-butyl ether | ND | | 5.0 | 0.40 | ug/L | | 02/14/14 02:12 | | 1 |
| m-Xylene & p-Xylene | ND | | 5.0 | 0.57 | ug/L | | 02/14/14 02:12 | | 1 |
| o-Xylene | ND | | 5.0 | 0.32 | ug/L | | 02/14/14 02:12 | | 1 |
| Styrene | ND | | 5.0 | 0.35 | ug/L | | 02/14/14 02:12 | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.43 | ug/L | | 02/14/14 02:12 | | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.28 | ug/L | | 02/14/14 02:12 | | 1 |
| Toluene | ND | | 5.0 | 1.0 | ug/L | | 02/14/14 02:12 | | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.18 | ug/L | | 02/14/14 02:12 | | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.35 | ug/L | | 02/14/14 02:12 | | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.55 | ug/L | | 02/14/14 02:12 | | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.29 | ug/L | | 02/14/14 02:12 | | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.57 | ug/L | | 02/14/14 02:12 | | 1 |
| Trichloroethene | ND | | 5.0 | 0.29 | ug/L | | 02/14/14 02:12 | | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 0.22 | ug/L | | 02/14/14 02:12 | | 1 |
| Vinyl chloride | ND | | 5.0 | 0.43 | ug/L | | 02/14/14 02:12 | | 1 |
| Xylenes, Total | ND | | 10 | 0.85 | ug/L | | 02/14/14 02:12 | | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102 | | 75 - 123 | | 02/14/14 02:12 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 80 - 120 | | 02/14/14 02:12 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 78 - 127 | | 02/14/14 02:12 | 1 |
| Toluene-d8 (Surr) | 97 | | 80 - 120 | | 02/14/14 02:12 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-----|------|---|----------------|----------------|---------|
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Barium | 99 J | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Barium | 100 J | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Calcium | 85000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Calcium | 86000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Iron | 150 J | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Iron | 150 J | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Magnesium | 49000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-209-SS

Lab Sample ID: 160-5524-4

Matrix: Water

Date Collected: 02/12/14 11:20

Date Received: 02/12/14 14:54

Method: 6010C - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|-------|------|------|---|----------------|----------------|---------|
| Magnesium | 46000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Manganese | 80 | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Manganese | 79 | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Potassium | ND ^ | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Potassium | ND | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Sodium | 20000 ^ | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Sodium | 25000 | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |
| Zinc | 48 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/18/14 19:47 | 5 |
| Zinc | 39 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/21/14 16:24 | 5 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Barium | 92 J | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Barium | 93 J | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Calcium | 83000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Calcium | 84000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Iron | ND | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Iron | ND | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Lead | 8.5 J | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Magnesium | 48000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Magnesium | 47000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Manganese | 82 | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Manganese | 80 | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-209-SS

Lab Sample ID: 160-5524-4

Date Collected: 02/12/14 11:20
Date Received: 02/12/14 14:54

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------------|-----------|-------|------|------|---|----------------|----------------|---------|
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Potassium | ND ^ | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Potassium | ND ^ | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Sodium | 16000 ^ | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Sodium | 20000 ^ | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |
| Zinc | 43 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/18/14 20:30 | 5 |
| Zinc | 39 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/21/14 17:06 | 5 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.060 | ug/L | | 02/13/14 09:56 | 02/13/14 15:37 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.060 | ug/L | | 02/13/14 09:56 | 02/13/14 15:24 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|---------------|-----------|-------|--------|------|---|----------|----------------|---------|
| Nitrate as N | 0.085 | | 0.020 | 0.0040 | mg/L | | | 02/13/14 18:49 | 1 |
| Chloride | 4.2 | | 0.20 | 0.020 | mg/L | | | 02/13/14 18:49 | 1 |
| Bromide | 0.19 J | | 0.25 | 0.025 | mg/L | | | 02/13/14 18:49 | 1 |
| Iodide | ND | | 1.0 | 0.10 | mg/L | | | 02/24/14 21:40 | 1 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Alkalinity | 360 | | 5.0 | 5.0 | mg/L | | | 02/23/14 17:06 | 1 |

General Chemistry - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|------|---|----------|----------------|---------|
| Sulfate | 38 | | 10 | 1.0 | mg/L | | | 02/13/14 19:05 | 20 |

Client Sample ID: PZ-212-SS

Lab Sample ID: 160-5524-5

Date Collected: 02/12/14 12:40
Date Received: 02/12/14 14:54

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone | ND * | | 20 | 6.7 | ug/L | | | 02/14/14 02:37 | 1 |
| Benzene | ND | | 5.0 | 0.25 | ug/L | | | 02/14/14 02:37 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.25 | ug/L | | | 02/14/14 02:37 | 1 |
| Bromoform | ND | | 5.0 | 0.37 | ug/L | | | 02/14/14 02:37 | 1 |
| Bromomethane | ND | | 10 | 0.40 | ug/L | | | 02/14/14 02:37 | 1 |
| 2-Butanone (MEK) | ND | | 20 | 0.39 | ug/L | | | 02/14/14 02:37 | 1 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-212-SS

Lab Sample ID: 160-5524-5

Date Collected: 02/12/14 12:40
Date Received: 02/12/14 14:54

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Carbon disulfide | ND | | 5.0 | 0.37 | ug/L | | 02/14/14 02:37 | | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.36 | ug/L | | 02/14/14 02:37 | | 1 |
| Chlorobenzene | ND | | 5.0 | 0.38 | ug/L | | 02/14/14 02:37 | | 1 |
| Chloroethane | ND | | 10 | 0.38 | ug/L | | 02/14/14 02:37 | | 1 |
| Chloroform | ND | | 5.0 | 0.15 | ug/L | | 02/14/14 02:37 | | 1 |
| Chloromethane | ND | | 10 | 0.55 | ug/L | | 02/14/14 02:37 | | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.16 | ug/L | | 02/14/14 02:37 | | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.34 | ug/L | | 02/14/14 02:37 | | 1 |
| Cyclohexane | ND | | 10 | 0.36 | ug/L | | 02/14/14 02:37 | | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.33 | ug/L | | 02/14/14 02:37 | | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | 1.2 | ug/L | | 02/14/14 02:37 | | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.44 | ug/L | | 02/14/14 02:37 | | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.28 | ug/L | | 02/14/14 02:37 | | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.23 | ug/L | | 02/14/14 02:37 | | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.35 | ug/L | | 02/14/14 02:37 | | 1 |
| Dichlorodifluoromethane | ND | | 10 | 0.45 | ug/L | | 02/14/14 02:37 | | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.39 | ug/L | | 02/14/14 02:37 | | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.37 | ug/L | | 02/14/14 02:37 | | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.37 | ug/L | | 02/14/14 02:37 | | 1 |
| 1,2-Dichloropropene | ND | | 5.0 | 0.32 | ug/L | | 02/14/14 02:37 | | 1 |
| Ethylbenzene | ND | | 5.0 | 0.30 | ug/L | | 02/14/14 02:37 | | 1 |
| 2-Hexanone | ND | | 20 | 0.59 | ug/L | | 02/14/14 02:37 | | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.26 | ug/L | | 02/14/14 02:37 | | 1 |
| Methyl acetate | ND | | 25 | 2.3 | ug/L | | 02/14/14 02:37 | | 1 |
| Methylcyclohexane | ND | | 10 | 0.26 | ug/L | | 02/14/14 02:37 | | 1 |
| Methylene Chloride | ND | | 5.0 | 1.7 | ug/L | | 02/14/14 02:37 | | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 20 | 0.33 | ug/L | | 02/14/14 02:37 | | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 0.40 | ug/L | | 02/14/14 02:37 | | 1 |
| m-Xylene & p-Xylene | ND | | 5.0 | 0.57 | ug/L | | 02/14/14 02:37 | | 1 |
| o-Xylene | ND | | 5.0 | 0.32 | ug/L | | 02/14/14 02:37 | | 1 |
| Styrene | ND | | 5.0 | 0.35 | ug/L | | 02/14/14 02:37 | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.43 | ug/L | | 02/14/14 02:37 | | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.28 | ug/L | | 02/14/14 02:37 | | 1 |
| Toluene | ND | | 5.0 | 1.0 | ug/L | | 02/14/14 02:37 | | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.18 | ug/L | | 02/14/14 02:37 | | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.35 | ug/L | | 02/14/14 02:37 | | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.55 | ug/L | | 02/14/14 02:37 | | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.29 | ug/L | | 02/14/14 02:37 | | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.57 | ug/L | | 02/14/14 02:37 | | 1 |
| Trichloroethene | ND | | 5.0 | 0.29 | ug/L | | 02/14/14 02:37 | | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 0.22 | ug/L | | 02/14/14 02:37 | | 1 |
| Vinyl chloride | ND | | 5.0 | 0.43 | ug/L | | 02/14/14 02:37 | | 1 |
| Xylenes, Total | ND | | 10 | 0.85 | ug/L | | 02/14/14 02:37 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 4-Bromofluorobenzene (Surr) | 105 | | 75 - 123 | | | | 02/14/14 02:37 | | 1 |
| Dibromofluoromethane (Surr) | 99 | | 80 - 120 | | | | 02/14/14 02:37 | | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 78 - 127 | | | | 02/14/14 02:37 | | 1 |
| Toluene-d8 (Surr) | 99 | | 80 - 120 | | | | 02/14/14 02:37 | | 1 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-212-SS

Lab Sample ID: 160-5524-5

Date Collected: 02/12/14 12:40
Date Received: 02/12/14 14:54

Matrix: Water

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|------|------|---|----------------|----------------|---------|
| Aluminum | 980 | J | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Aluminum | 1100 | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Barium | 110 | J | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Barium | 110 | J | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Calcium | 88000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Calcium | 86000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Iron | 900 | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Iron | 890 | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Magnesium | 43000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Magnesium | 40000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Manganese | 57 | J | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Manganese | 58 | J | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Potassium | ND | ^ | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Potassium | ND | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Selenium | 17 | J | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Sodium | 24000 | ^ | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Sodium | 28000 | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |
| Zinc | 59 | J | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/18/14 19:51 | 5 |
| Zinc | 45 | J | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/21/14 16:28 | 5 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-212-SS

Lab Sample ID: 160-5524-5

Date Collected: 02/12/14 12:40

Matrix: Water

Date Received: 02/12/14 14:54

Method: 6010C - Metals (ICP) - Dissolved (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|----------------|-----------|-------|------|------|---|----------------|----------------|---------|
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Barium | 110 J | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Barium | 110 J | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Calcium | 88000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Calcium | 88000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Iron | ND | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Iron | ND | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Magnesium | 43000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Magnesium | 41000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Manganese | 23 J | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Manganese | 24 J | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Potassium | ND ^ | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Potassium | ND ^ | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Sodium | 25000 ^ | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Sodium | 25000 ^ | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |
| Zinc | 48 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/18/14 20:34 | 5 |
| Zinc | 41 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/21/14 17:10 | 5 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.060 | ug/L | | 02/13/14 09:56 | 02/13/14 15:39 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.060 | ug/L | | 02/13/14 09:56 | 02/13/14 15:26 | 1 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: PZ-212-SS

Date Collected: 02/12/14 12:40
Date Received: 02/12/14 14:54

Lab Sample ID: 160-5524-5

Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Nitrate as N | 0.068 | | 0.020 | 0.0040 | mg/L | | | 02/13/14 00:38 | 1 |
| Bromide | 0.14 | J | 0.25 | 0.025 | mg/L | | | 02/13/14 00:38 | 1 |
| Iodide | ND | | 1.0 | 0.10 | mg/L | | | 02/24/14 21:53 | 1 |
| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Alkalinity | 290 | | 5.0 | 5.0 | mg/L | | | 02/23/14 16:58 | 1 |

General Chemistry - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride | 49 | | 4.0 | 0.40 | mg/L | | | 02/13/14 00:54 | 20 |
| Sulfate | 49 | | 10 | 1.0 | mg/L | | | 02/13/14 00:54 | 20 |

Client Sample ID: DUPLICATE 01

Date Collected: 02/12/14 00:00
Date Received: 02/12/14 14:54

Lab Sample ID: 160-5524-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone | ND | * | 20 | 6.7 | ug/L | | | 02/14/14 03:02 | 1 |
| Benzene | ND | | 5.0 | 0.25 | ug/L | | | 02/14/14 03:02 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.25 | ug/L | | | 02/14/14 03:02 | 1 |
| Bromoform | ND | | 5.0 | 0.37 | ug/L | | | 02/14/14 03:02 | 1 |
| Bromomethane | ND | | 10 | 0.40 | ug/L | | | 02/14/14 03:02 | 1 |
| 2-Butanone (MEK) | ND | | 20 | 0.39 | ug/L | | | 02/14/14 03:02 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.37 | ug/L | | | 02/14/14 03:02 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.36 | ug/L | | | 02/14/14 03:02 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.38 | ug/L | | | 02/14/14 03:02 | 1 |
| Chloroethane | ND | | 10 | 0.38 | ug/L | | | 02/14/14 03:02 | 1 |
| Chloroform | ND | | 5.0 | 0.15 | ug/L | | | 02/14/14 03:02 | 1 |
| Chloromethane | ND | | 10 | 0.55 | ug/L | | | 02/14/14 03:02 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.16 | ug/L | | | 02/14/14 03:02 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.34 | ug/L | | | 02/14/14 03:02 | 1 |
| Cyclohexane | ND | | 10 | 0.36 | ug/L | | | 02/14/14 03:02 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.33 | ug/L | | | 02/14/14 03:02 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | 1.2 | ug/L | | | 02/14/14 03:02 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.44 | ug/L | | | 02/14/14 03:02 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.28 | ug/L | | | 02/14/14 03:02 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.23 | ug/L | | | 02/14/14 03:02 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.35 | ug/L | | | 02/14/14 03:02 | 1 |
| Dichlorodifluoromethane | ND | | 10 | 0.45 | ug/L | | | 02/14/14 03:02 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.39 | ug/L | | | 02/14/14 03:02 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.37 | ug/L | | | 02/14/14 03:02 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.37 | ug/L | | | 02/14/14 03:02 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.32 | ug/L | | | 02/14/14 03:02 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.30 | ug/L | | | 02/14/14 03:02 | 1 |
| 2-Hexanone | ND | | 20 | 0.59 | ug/L | | | 02/14/14 03:02 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.26 | ug/L | | | 02/14/14 03:02 | 1 |
| Methyl acetate | ND | | 25 | 2.3 | ug/L | | | 02/14/14 03:02 | 1 |
| Methylcyclohexane | ND | | 10 | 0.26 | ug/L | | | 02/14/14 03:02 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.7 | ug/L | | | 02/14/14 03:02 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 20 | 0.33 | ug/L | | | 02/14/14 03:02 | 1 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: DUPLICATE 01

Date Collected: 02/12/14 00:00
Date Received: 02/12/14 14:54

Lab Sample ID: 160-5524-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Methyl tert-butyl ether | ND | | 5.0 | 0.40 | ug/L | | | 02/14/14 03:02 | 1 |
| m-Xylene & p-Xylene | ND | | 5.0 | 0.57 | ug/L | | | 02/14/14 03:02 | 1 |
| o-Xylene | ND | | 5.0 | 0.32 | ug/L | | | 02/14/14 03:02 | 1 |
| Styrene | ND | | 5.0 | 0.35 | ug/L | | | 02/14/14 03:02 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.43 | ug/L | | | 02/14/14 03:02 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.28 | ug/L | | | 02/14/14 03:02 | 1 |
| Toluene | ND | | 5.0 | 1.0 | ug/L | | | 02/14/14 03:02 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.18 | ug/L | | | 02/14/14 03:02 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.35 | ug/L | | | 02/14/14 03:02 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.55 | ug/L | | | 02/14/14 03:02 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.29 | ug/L | | | 02/14/14 03:02 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.57 | ug/L | | | 02/14/14 03:02 | 1 |
| Trichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 02/14/14 03:02 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 0.22 | ug/L | | | 02/14/14 03:02 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.43 | ug/L | | | 02/14/14 03:02 | 1 |
| Xylenes, Total | ND | | 10 | 0.85 | ug/L | | | 02/14/14 03:02 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101 | | 75 - 123 | | 02/14/14 03:02 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 80 - 120 | | 02/14/14 03:02 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 78 - 127 | | 02/14/14 03:02 | 1 |
| Toluene-d8 (Surr) | 98 | | 80 - 120 | | 02/14/14 03:02 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-----|------|---|----------|----------------|----------------|
| Aluminum | ND | | 1000 | 400 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:55 |
| Aluminum | ND | | 1000 | 400 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:32 |
| Antimony | ND | | 50 | 20 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:55 |
| Antimony | ND | | 50 | 20 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:32 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:55 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:32 |
| Barium | 35 J | | 250 | 20 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:55 |
| Barium | 34 J | | 250 | 20 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:32 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:55 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:32 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:55 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:32 |
| Calcium | 63000 | | 5000 | 530 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:55 |
| Calcium | 62000 | | 5000 | 530 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:32 |
| Chromium | ND | | 50 | 16 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:55 |
| Chromium | ND | | 50 | 16 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:32 |
| Cobalt | ND | | 250 | 25 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:55 |
| Cobalt | ND | | 250 | 25 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:32 |
| Copper | ND | | 130 | 23 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:55 |
| Copper | ND | | 130 | 23 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:32 |
| Iron | ND | | 500 | 140 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:55 |
| Iron | ND | | 500 | 140 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:32 |
| Lead | ND | | 50 | 7.5 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:55 |
| Lead | ND | | 50 | 7.5 | ug/L | | | 02/14/14 10:32 | 02/21/14 16:32 |
| Magnesium | 28000 | | 5000 | 660 | ug/L | | | 02/14/14 10:32 | 02/18/14 19:55 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: DUPLICATE 01

Date Collected: 02/12/14 00:00
Date Received: 02/12/14 14:54

Lab Sample ID: 160-5524-6

Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|----------|-----------|-------|------|------|---|----------------|----------------|---------|
| Magnesium | 27000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/21/14 16:32 | 5 |
| Manganese | 19 J | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/18/14 19:55 | 5 |
| Manganese | 20 J | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/21/14 16:32 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/18/14 19:55 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/21/14 16:32 | 5 |
| Potassium | ND ^ | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/18/14 19:55 | 5 |
| Potassium | 9200 J | | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/21/14 16:32 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/18/14 19:55 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/21/14 16:32 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/18/14 19:55 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/21/14 16:32 | 5 |
| Sodium | 120000 ^ | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/18/14 19:55 | 5 |
| Sodium | 140000 | | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/21/14 16:32 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:55 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:32 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 19:55 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 16:32 | 5 |
| Zinc | 52 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/18/14 19:55 | 5 |
| Zinc | 42 J | | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/21/14 16:32 | 5 |

Method: 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Aluminum | ND | | 1000 | 400 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Antimony | ND | | 50 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Arsenic | ND | | 50 | 9.9 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Barium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Barium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Beryllium | ND | | 25 | 3.1 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Cadmium | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Calcium | 63000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Calcium | 63000 | | 5000 | 530 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Chromium | ND | | 50 | 16 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Cobalt | ND | | 250 | 25 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Copper | ND | | 130 | 23 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Iron | ND | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Iron | ND | | 500 | 140 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Lead | ND | | 50 | 7.5 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Magnesium | 29000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Magnesium | 26000 | | 5000 | 660 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Manganese | 19 J | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Manganese | 19 J | | 75 | 17 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: DUPLICATE 01

Lab Sample ID: 160-5524-6

Matrix: Water

Date Collected: 02/12/14 00:00
Date Received: 02/12/14 14:54

Method: 6010C - Metals (ICP) - Dissolved (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|------|------|---|----------------|----------------|---------|
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Nickel | ND | | 200 | 67 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Potassium | 8900 | J ^ | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Potassium | 8700 | J ^ | 25000 | 8300 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Selenium | ND | | 75 | 13 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Silver | ND | | 50 | 30 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Sodium | 130000 | ^ | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Sodium | 130000 | ^ | 5000 | 1600 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Thallium | ND | | 100 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Vanadium | ND | | 250 | 20 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |
| Zinc | 56 | J | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/18/14 20:38 | 5 |
| Zinc | 48 | J | 100 | 26 | ug/L | | 02/14/14 10:32 | 02/21/14 17:14 | 5 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.060 | ug/L | | 02/13/14 09:56 | 02/13/14 15:40 | 1 |

Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.060 | ug/L | | 02/13/14 09:56 | 02/13/14 15:27 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Nitrate as N | 0.068 | | 0.020 | 0.0040 | mg/L | | | 02/12/14 21:37 | 1 |
| Bromide | 0.11 | J | 0.25 | 0.025 | mg/L | | | 02/12/14 21:37 | 1 |
| Iodide | ND | | 1.0 | 0.10 | mg/L | | | 02/24/14 22:07 | 1 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Alkalinity | 370 | | 5.0 | 5.0 | mg/L | | | 02/23/14 17:22 | 1 |

General Chemistry - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride | 26 | | 4.0 | 0.40 | mg/L | | | 02/12/14 21:53 | 20 |
| Sulfate | 79 | | 10 | 1.0 | mg/L | | | 02/12/14 21:53 | 20 |

Client Sample ID: TRIP BLANK

Lab Sample ID: 160-5524-7

Matrix: Water

Date Collected: 02/12/14 00:00
Date Received: 02/12/14 14:54

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone | 8.0 | J * | 20 | 6.7 | ug/L | | | 02/13/14 23:16 | 1 |
| Benzene | ND | | 5.0 | 0.25 | ug/L | | | 02/13/14 23:16 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.25 | ug/L | | | 02/13/14 23:16 | 1 |
| Bromoform | ND | | 5.0 | 0.37 | ug/L | | | 02/13/14 23:16 | 1 |
| Bromomethane | ND | | 10 | 0.40 | ug/L | | | 02/13/14 23:16 | 1 |
| 2-Butanone (MEK) | ND | | 20 | 0.39 | ug/L | | | 02/13/14 23:16 | 1 |

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Client Sample ID: TRIP BLANK

Date Collected: 02/12/14 00:00
Date Received: 02/12/14 14:54

Lab Sample ID: 160-5524-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Carbon disulfide | ND | | 5.0 | 0.37 | ug/L | | 02/13/14 23:16 | | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.36 | ug/L | | 02/13/14 23:16 | | 1 |
| Chlorobenzene | ND | | 5.0 | 0.38 | ug/L | | 02/13/14 23:16 | | 1 |
| Chloroethane | ND | | 10 | 0.38 | ug/L | | 02/13/14 23:16 | | 1 |
| Chloroform | ND | | 5.0 | 0.15 | ug/L | | 02/13/14 23:16 | | 1 |
| Chloromethane | ND | | 10 | 0.55 | ug/L | | 02/13/14 23:16 | | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.16 | ug/L | | 02/13/14 23:16 | | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.34 | ug/L | | 02/13/14 23:16 | | 1 |
| Cyclohexane | ND | | 10 | 0.36 | ug/L | | 02/13/14 23:16 | | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.33 | ug/L | | 02/13/14 23:16 | | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | 1.2 | ug/L | | 02/13/14 23:16 | | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.44 | ug/L | | 02/13/14 23:16 | | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.28 | ug/L | | 02/13/14 23:16 | | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.23 | ug/L | | 02/13/14 23:16 | | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.35 | ug/L | | 02/13/14 23:16 | | 1 |
| Dichlorodifluoromethane | ND | | 10 | 0.45 | ug/L | | 02/13/14 23:16 | | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.39 | ug/L | | 02/13/14 23:16 | | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.37 | ug/L | | 02/13/14 23:16 | | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.37 | ug/L | | 02/13/14 23:16 | | 1 |
| 1,2-Dichloropropene | ND | | 5.0 | 0.32 | ug/L | | 02/13/14 23:16 | | 1 |
| Ethylbenzene | ND | | 5.0 | 0.30 | ug/L | | 02/13/14 23:16 | | 1 |
| 2-Hexanone | ND | | 20 | 0.59 | ug/L | | 02/13/14 23:16 | | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.26 | ug/L | | 02/13/14 23:16 | | 1 |
| Methyl acetate | ND | | 25 | 2.3 | ug/L | | 02/13/14 23:16 | | 1 |
| Methylcyclohexane | ND | | 10 | 0.26 | ug/L | | 02/13/14 23:16 | | 1 |
| Methylene Chloride | ND | | 5.0 | 1.7 | ug/L | | 02/13/14 23:16 | | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 20 | 0.33 | ug/L | | 02/13/14 23:16 | | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 0.40 | ug/L | | 02/13/14 23:16 | | 1 |
| m-Xylene & p-Xylene | ND | | 5.0 | 0.57 | ug/L | | 02/13/14 23:16 | | 1 |
| o-Xylene | ND | | 5.0 | 0.32 | ug/L | | 02/13/14 23:16 | | 1 |
| Styrene | ND | | 5.0 | 0.35 | ug/L | | 02/13/14 23:16 | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.43 | ug/L | | 02/13/14 23:16 | | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.28 | ug/L | | 02/13/14 23:16 | | 1 |
| Toluene | ND | | 5.0 | 1.0 | ug/L | | 02/13/14 23:16 | | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.18 | ug/L | | 02/13/14 23:16 | | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.35 | ug/L | | 02/13/14 23:16 | | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.55 | ug/L | | 02/13/14 23:16 | | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.29 | ug/L | | 02/13/14 23:16 | | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.57 | ug/L | | 02/13/14 23:16 | | 1 |
| Trichloroethene | ND | | 5.0 | 0.29 | ug/L | | 02/13/14 23:16 | | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 0.22 | ug/L | | 02/13/14 23:16 | | 1 |
| Vinyl chloride | ND | | 5.0 | 0.43 | ug/L | | 02/13/14 23:16 | | 1 |
| Xylenes, Total | ND | | 10 | 0.85 | ug/L | | 02/13/14 23:16 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 4-Bromofluorobenzene (Surr) | 105 | | 75 - 123 | | | | 02/13/14 23:16 | | 1 |
| Dibromofluoromethane (Surr) | 96 | | 80 - 120 | | | | 02/13/14 23:16 | | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 78 - 127 | | | | 02/13/14 23:16 | | 1 |
| Toluene-d8 (Surr) | 99 | | 80 - 120 | | | | 02/13/14 23:16 | | 1 |

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 160-105508/3-A

Matrix: Water

Analysis Batch: 105508

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB | MB | Dil Fac | | | | | | |
|-----------------------------|--------|-----------|---------|-----|------|------|---|----------------|----------|
| | Result | Qualifier | | RL | MDL | Unit | D | Prepared | Analyzed |
| Acetone | ND | | 1 | 20 | 6.7 | ug/L | | 02/13/14 21:11 | |
| Benzene | ND | | 1 | 5.0 | 0.25 | ug/L | | 02/13/14 21:11 | |
| Bromodichloromethane | ND | | 1 | 5.0 | 0.25 | ug/L | | 02/13/14 21:11 | |
| Bromoform | ND | | 1 | 5.0 | 0.37 | ug/L | | 02/13/14 21:11 | |
| Bromomethane | ND | | 1 | 10 | 0.40 | ug/L | | 02/13/14 21:11 | |
| 2-Butanone (MEK) | ND | | 1 | 20 | 0.39 | ug/L | | 02/13/14 21:11 | |
| Carbon disulfide | ND | | 1 | 5.0 | 0.37 | ug/L | | 02/13/14 21:11 | |
| Carbon tetrachloride | ND | | 1 | 5.0 | 0.36 | ug/L | | 02/13/14 21:11 | |
| Chlorobenzene | ND | | 1 | 5.0 | 0.38 | ug/L | | 02/13/14 21:11 | |
| Chloroethane | ND | | 1 | 10 | 0.38 | ug/L | | 02/13/14 21:11 | |
| Chloroform | ND | | 1 | 5.0 | 0.15 | ug/L | | 02/13/14 21:11 | |
| Chloromethane | ND | | 1 | 10 | 0.55 | ug/L | | 02/13/14 21:11 | |
| cis-1,2-Dichloroethene | ND | | 1 | 5.0 | 0.16 | ug/L | | 02/13/14 21:11 | |
| cis-1,3-Dichloropropene | ND | | 1 | 5.0 | 0.34 | ug/L | | 02/13/14 21:11 | |
| Cyclohexane | ND | | 1 | 10 | 0.36 | ug/L | | 02/13/14 21:11 | |
| Dibromochloromethane | ND | | 1 | 5.0 | 0.33 | ug/L | | 02/13/14 21:11 | |
| 1,2-Dibromo-3-Chloropropane | ND | | 1 | 10 | 1.2 | ug/L | | 02/13/14 21:11 | |
| 1,2-Dibromoethane (EDB) | ND | | 1 | 5.0 | 0.44 | ug/L | | 02/13/14 21:11 | |
| 1,2-Dichlorobenzene | ND | | 1 | 5.0 | 0.28 | ug/L | | 02/13/14 21:11 | |
| 1,3-Dichlorobenzene | ND | | 1 | 5.0 | 0.23 | ug/L | | 02/13/14 21:11 | |
| 1,4-Dichlorobenzene | ND | | 1 | 5.0 | 0.35 | ug/L | | 02/13/14 21:11 | |
| Dichlorodifluoromethane | ND | | 1 | 10 | 0.45 | ug/L | | 02/13/14 21:11 | |
| 1,1-Dichloroethane | ND | | 1 | 5.0 | 0.39 | ug/L | | 02/13/14 21:11 | |
| 1,2-Dichloroethane | ND | | 1 | 5.0 | 0.37 | ug/L | | 02/13/14 21:11 | |
| 1,1-Dichloroethene | ND | | 1 | 5.0 | 0.37 | ug/L | | 02/13/14 21:11 | |
| 1,2-Dichloropropane | ND | | 1 | 5.0 | 0.32 | ug/L | | 02/13/14 21:11 | |
| Ethylbenzene | ND | | 1 | 5.0 | 0.30 | ug/L | | 02/13/14 21:11 | |
| 2-Hexanone | ND | | 1 | 20 | 0.59 | ug/L | | 02/13/14 21:11 | |
| Isopropylbenzene | ND | | 1 | 5.0 | 0.26 | ug/L | | 02/13/14 21:11 | |
| Methyl acetate | ND | | 1 | 25 | 2.3 | ug/L | | 02/13/14 21:11 | |
| Methylcyclohexane | ND | | 1 | 10 | 0.26 | ug/L | | 02/13/14 21:11 | |
| Methylene Chloride | ND | | 1 | 5.0 | 1.7 | ug/L | | 02/13/14 21:11 | |
| 4-Methyl-2-pentanone (MIBK) | ND | | 1 | 20 | 0.33 | ug/L | | 02/13/14 21:11 | |
| Methyl tert-butyl ether | ND | | 1 | 5.0 | 0.40 | ug/L | | 02/13/14 21:11 | |
| m-Xylene & p-Xylene | ND | | 1 | 5.0 | 0.57 | ug/L | | 02/13/14 21:11 | |
| o-Xylene | ND | | 1 | 5.0 | 0.32 | ug/L | | 02/13/14 21:11 | |
| Styrene | ND | | 1 | 5.0 | 0.35 | ug/L | | 02/13/14 21:11 | |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | 5.0 | 0.43 | ug/L | | 02/13/14 21:11 | |
| Tetrachloroethene | ND | | 1 | 5.0 | 0.28 | ug/L | | 02/13/14 21:11 | |
| Toluene | ND | | 1 | 5.0 | 1.0 | ug/L | | 02/13/14 21:11 | |
| trans-1,2-Dichloroethene | ND | | 1 | 5.0 | 0.18 | ug/L | | 02/13/14 21:11 | |
| trans-1,3-Dichloropropene | ND | | 1 | 5.0 | 0.35 | ug/L | | 02/13/14 21:11 | |
| 1,2,4-Trichlorobenzene | ND | | 1 | 5.0 | 0.55 | ug/L | | 02/13/14 21:11 | |
| 1,1,1-Trichloroethane | ND | | 1 | 5.0 | 0.29 | ug/L | | 02/13/14 21:11 | |
| 1,1,2-Trichloroethane | ND | | 1 | 5.0 | 0.57 | ug/L | | 02/13/14 21:11 | |
| Trichloroethene | ND | | 1 | 5.0 | 0.29 | ug/L | | 02/13/14 21:11 | |
| Trichlorofluoromethane | ND | | 1 | 5.0 | 0.22 | ug/L | | 02/13/14 21:11 | |
| Vinyl chloride | ND | | 1 | 5.0 | 0.43 | ug/L | | 02/13/14 21:11 | |

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 160-105508/3-A

Matrix: Water

Analysis Batch: 105508

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB | MB | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|--------|-----------|----------|-----|------|---|----------|----------------|---------|
| | ND | 10 | | | | | | | | | |
| Xylenes, Total | | | | | | | | | | 02/13/14 21:11 | 1 |
| Surrogate | MB | MB | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 106 | | | | 75 - 123 | | | | | 02/13/14 21:11 | 1 |
| Dibromofluoromethane (Surr) | 98 | | | | 80 - 120 | | | | | 02/13/14 21:11 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | | | 78 - 127 | | | | | 02/13/14 21:11 | 1 |
| Toluene-d8 (Surr) | 99 | | | | 80 - 120 | | | | | 02/13/14 21:11 | 1 |

Lab Sample ID: LCS 160-105508/4-A

Matrix: Water

Analysis Batch: 105508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCs | LCs | Result | Qualifier | Unit | D | %Rec | Limits | %Rec. |
|-----------------------------|----------------|-------|--------|--------|-----------|------|---|------|----------|-------|
| | | Added | Result | | | | | | | |
| Acetone | 50.0 | | 70.5 | * | | ug/L | | 141 | 72 - 139 | |
| Benzene | 50.0 | | 51.1 | | | ug/L | | 102 | 80 - 120 | |
| Bromodichloromethane | 50.0 | | 50.5 | | | ug/L | | 101 | 80 - 120 | |
| Bromoform | 50.0 | | 53.5 | | | ug/L | | 107 | 80 - 120 | |
| Bromomethane | 50.0 | | 47.1 | | | ug/L | | 94 | 48 - 140 | |
| 2-Butanone (MEK) | 50.0 | | 51.4 | | | ug/L | | 103 | 68 - 128 | |
| Carbon disulfide | 50.0 | | 52.3 | | | ug/L | | 105 | 79 - 120 | |
| Carbon tetrachloride | 50.0 | | 52.3 | | | ug/L | | 105 | 74 - 128 | |
| Chlorobenzene | 50.0 | | 50.5 | | | ug/L | | 101 | 80 - 120 | |
| Chloroethane | 50.0 | | 46.8 | | | ug/L | | 94 | 55 - 140 | |
| Chloroform | 50.0 | | 51.1 | | | ug/L | | 102 | 80 - 120 | |
| Chloromethane | 50.0 | | 50.2 | | | ug/L | | 100 | 72 - 123 | |
| cis-1,2-Dichloroethene | 50.0 | | 49.8 | | | ug/L | | 100 | 80 - 120 | |
| cis-1,3-Dichloropropene | 50.0 | | 50.5 | | | ug/L | | 101 | 80 - 120 | |
| Cyclohexane | 50.0 | | 52.7 | | | ug/L | | 105 | 77 - 127 | |
| Dibromochloromethane | 50.0 | | 52.4 | | | ug/L | | 105 | 80 - 120 | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | | 59.7 | | | ug/L | | 119 | 69 - 135 | |
| 1,2-Dibromoethane (EDB) | 50.0 | | 52.7 | | | ug/L | | 105 | 80 - 120 | |
| 1,2-Dichlorobenzene | 50.0 | | 51.9 | | | ug/L | | 104 | 76 - 122 | |
| 1,3-Dichlorobenzene | 50.0 | | 50.4 | | | ug/L | | 101 | 77 - 122 | |
| 1,4-Dichlorobenzene | 50.0 | | 51.5 | | | ug/L | | 103 | 80 - 120 | |
| Dichlorodifluoromethane | 50.0 | | 49.2 | | | ug/L | | 98 | 49 - 140 | |
| 1,1-Dichloroethane | 50.0 | | 51.5 | | | ug/L | | 103 | 80 - 120 | |
| 1,2-Dichloroethane | 50.0 | | 51.9 | | | ug/L | | 104 | 80 - 120 | |
| 1,1-Dichloroethene | 50.0 | | 51.1 | | | ug/L | | 102 | 77 - 121 | |
| 1,2-Dichloropropane | 50.0 | | 51.5 | | | ug/L | | 103 | 80 - 120 | |
| Ethylbenzene | 50.0 | | 51.5 | | | ug/L | | 103 | 80 - 120 | |
| 2-Hexanone | 50.0 | | 64.5 | | | ug/L | | 129 | 64 - 136 | |
| Isopropylbenzene | 50.0 | | 52.6 | | | ug/L | | 105 | 80 - 127 | |
| Methyl acetate | 250 | | 263 | | | ug/L | | 105 | 66 - 132 | |
| Methylcyclohexane | 50.0 | | 55.9 | | | ug/L | | 112 | 75 - 131 | |
| Methylene Chloride | 50.0 | | 49.8 | | | ug/L | | 100 | 79 - 115 | |
| 4-Methyl-2-pentanone (MIBK) | 50.0 | | 60.2 | | | ug/L | | 120 | 74 - 129 | |
| Methyl tert-butyl ether | 50.0 | | 52.7 | | | ug/L | | 105 | 77 - 124 | |
| m-Xylene & p-Xylene | 50.0 | | 51.5 | | | ug/L | | 103 | 80 - 120 | |

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 160-105508/4-A

Matrix: Water

Analysis Batch: 105508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike | LCS | | Unit | D | %Rec | Limits | | |
|---------------------------|-------|--------|-----------|------|---|------|----------|--|--|
| | Added | Result | Qualifier | | | | | | |
| o-Xylene | 50.0 | 51.7 | | ug/L | | 103 | 79 - 126 | | |
| Styrene | 50.0 | 53.0 | | ug/L | | 106 | 80 - 120 | | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 53.5 | | ug/L | | 107 | 80 - 120 | | |
| Tetrachloroethene | 50.0 | 50.3 | | ug/L | | 101 | 80 - 120 | | |
| Toluene | 50.0 | 51.3 | | ug/L | | 103 | 80 - 120 | | |
| trans-1,2-Dichloroethene | 50.0 | 51.3 | | ug/L | | 103 | 80 - 120 | | |
| trans-1,3-Dichloropropene | 50.0 | 51.5 | | ug/L | | 103 | 80 - 120 | | |
| 1,2,4-Trichlorobenzene | 50.0 | 53.2 | | ug/L | | 106 | 82 - 124 | | |
| 1,1,1-Trichloroethane | 50.0 | 52.3 | | ug/L | | 105 | 75 - 127 | | |
| 1,1,2-Trichloroethane | 50.0 | 52.5 | | ug/L | | 105 | 80 - 120 | | |
| Trichloroethene | 50.0 | 55.0 | | ug/L | | 110 | 80 - 120 | | |
| Trichlorofluoromethane | 50.0 | 47.1 | | ug/L | | 94 | 72 - 132 | | |
| Vinyl chloride | 50.0 | 48.3 | | ug/L | | 97 | 68 - 120 | | |
| Xylenes, Total | 100 | 103 | | ug/L | | 103 | 80 - 120 | | |

| Surrogate | LCS | LCS | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 99 | | 75 - 123 |
| Dibromofluoromethane (Surr) | 98 | | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 78 - 127 |
| Toluene-d8 (Surr) | 102 | | 80 - 120 |

Lab Sample ID: 160-5524-1 MS

Matrix: Water

Analysis Batch: 105508

Client Sample ID: PZ-211-SD
Prep Type: Total/NA

| Analyte | Sample | Sample | Spike | MS | | Unit | D | %Rec | Limits |
|-----------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Acetone | 9.5 | J * | 50.0 | 70.9 | | ug/L | | 123 | 54 - 140 |
| Benzene | ND | | 50.0 | 54.5 | | ug/L | | 109 | 72 - 123 |
| Bromodichloromethane | ND | | 50.0 | 52.9 | | ug/L | | 106 | 80 - 120 |
| Bromoform | ND | | 50.0 | 52.9 | | ug/L | | 106 | 78 - 122 |
| Bromomethane | ND | | 50.0 | 54.2 | | ug/L | | 108 | 51 - 146 |
| 2-Butanone (MEK) | ND | | 50.0 | 49.5 | | ug/L | | 99 | 62 - 135 |
| Carbon disulfide | ND | | 50.0 | 55.8 | | ug/L | | 112 | 80 - 120 |
| Carbon tetrachloride | ND | | 50.0 | 54.9 | | ug/L | | 110 | 80 - 124 |
| Chlorobenzene | ND | | 50.0 | 51.6 | | ug/L | | 103 | 80 - 120 |
| Chloroethane | ND | | 50.0 | 52.4 | | ug/L | | 105 | 53 - 148 |
| Chloroform | ND | | 50.0 | 53.7 | | ug/L | | 107 | 80 - 120 |
| Chloromethane | ND | | 50.0 | 51.2 | | ug/L | | 102 | 80 - 120 |
| cis-1,2-Dichloroethene | ND | | 50.0 | 52.6 | | ug/L | | 105 | 80 - 120 |
| cis-1,3-Dichloropropene | ND | | 50.0 | 52.4 | | ug/L | | 105 | 80 - 120 |
| Cyclohexane | ND | | 50.0 | 55.2 | | ug/L | | 110 | 80 - 120 |
| Dibromochloromethane | ND | | 50.0 | 53.6 | | ug/L | | 107 | 80 - 120 |
| 1,2-Dibromo-3-Chloropropane | ND | | 50.0 | 59.1 | | ug/L | | 118 | 59 - 144 |
| 1,2-Dibromoethane (EDB) | ND | | 50.0 | 53.4 | | ug/L | | 107 | 80 - 120 |
| 1,2-Dichlorobenzene | ND | | 50.0 | 51.8 | | ug/L | | 104 | 77 - 117 |
| 1,3-Dichlorobenzene | ND | | 50.0 | 50.4 | | ug/L | | 101 | 80 - 120 |
| 1,4-Dichlorobenzene | ND | | 50.0 | 51.3 | | ug/L | | 103 | 80 - 120 |
| Dichlorodifluoromethane | ND | | 50.0 | 53.2 | | ug/L | | 106 | 70 - 131 |

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 160-5524-1 MS

Matrix: Water

Analysis Batch: 105508

Client Sample ID: PZ-211-SD
Prep Type: Total/NA

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | Limits | | |
|------------------------------|------------------|------------------|-------|--------|-----------|---------------|---|------|----------|--|--|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| 1,1-Dichloroethane | ND | | 50.0 | 54.2 | | ug/L | | 108 | 80 - 120 | | |
| 1,2-Dichloroethane | ND | | 50.0 | 54.4 | | ug/L | | 109 | 80 - 120 | | |
| 1,1-Dichloroethene | ND | | 50.0 | 53.4 | | ug/L | | 107 | 80 - 120 | | |
| 1,2-Dichloropropane | ND | | 50.0 | 54.0 | | ug/L | | 108 | 80 - 120 | | |
| Ethylbenzene | ND | | 50.0 | 52.2 | | ug/L | | 104 | 80 - 120 | | |
| 2-Hexanone | ND | | 50.0 | 60.1 | | ug/L | | 120 | 65 - 136 | | |
| Isopropylbenzene | ND | | 50.0 | 53.4 | | ug/L | | 107 | 78 - 125 | | |
| Methyl acetate | ND | | 250 | 271 | | ug/L | | 108 | 70 - 126 | | |
| Methylcyclohexane | ND | | 50.0 | 57.7 | | ug/L | | 115 | 83 - 124 | | |
| Methylene Chloride | ND | | 50.0 | 53.0 | | ug/L | | 106 | 80 - 120 | | |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50.0 | 57.6 | | ug/L | | 115 | 74 - 132 | | |
| Methyl tert-butyl ether | ND | | 50.0 | 55.4 | | ug/L | | 111 | 78 - 124 | | |
| m-Xylene & p-Xylene | ND | | 50.0 | 52.0 | | ug/L | | 104 | 80 - 120 | | |
| o-Xylene | ND | | 50.0 | 53.5 | | ug/L | | 107 | 79 - 124 | | |
| Styrene | ND | | 50.0 | 52.9 | | ug/L | | 106 | 80 - 120 | | |
| 1,1,2,2-Tetrachloroethane | ND | | 50.0 | 53.1 | | ug/L | | 106 | 72 - 125 | | |
| Tetrachloroethene | ND | | 50.0 | 51.1 | | ug/L | | 102 | 80 - 120 | | |
| Toluene | ND | | 50.0 | 53.1 | | ug/L | | 106 | 80 - 120 | | |
| trans-1,2-Dichloroethene | ND | | 50.0 | 54.2 | | ug/L | | 108 | 80 - 120 | | |
| trans-1,3-Dichloropropene | ND | | 50.0 | 52.6 | | ug/L | | 105 | 77 - 122 | | |
| 1,2,4-Trichlorobenzene | ND | | 50.0 | 53.1 | | ug/L | | 106 | 78 - 124 | | |
| 1,1,1-Trichloroethane | ND | | 50.0 | 55.0 | | ug/L | | 110 | 81 - 123 | | |
| 1,1,2-Trichloroethane | ND | | 50.0 | 53.5 | | ug/L | | 107 | 76 - 119 | | |
| Trichloroethene | ND | | 50.0 | 58.0 | | ug/L | | 116 | 80 - 120 | | |
| Trichlorofluoromethane | ND | | 50.0 | 51.7 | | ug/L | | 103 | 79 - 128 | | |
| Vinyl chloride | ND | | 50.0 | 52.3 | | ug/L | | 105 | 75 - 118 | | |
| Xylenes, Total | ND | | 100 | 106 | | ug/L | | 106 | 80 - 120 | | |
| Surrogate | | | | | | | | | | | |
| | MS | MS | | | | | | | | | |
| | %Recovery | Qualifier | | | | Limits | | | | | |
| 4-Bromofluorobenzene (Surr) | 99 | | | | | 75 - 123 | | | | | |
| Dibromofluoromethane (Surr) | 104 | | | | | 80 - 120 | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | | | | 78 - 127 | | | | | |
| Toluene-d8 (Surr) | 102 | | | | | 80 - 120 | | | | | |

Lab Sample ID: 160-5524-1 MSD

Matrix: Water

Analysis Batch: 105508

Client Sample ID: PZ-211-SD
Prep Type: Total/NA

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | Limits | RPD | Limit |
|----------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Acetone | 9.5 | J * | 50.0 | 68.4 | | ug/L | | 118 | 54 - 140 | 4 | 20 |
| Benzene | ND | | 50.0 | 51.8 | | ug/L | | 104 | 72 - 123 | 5 | 20 |
| Bromodichloromethane | ND | | 50.0 | 52.4 | | ug/L | | 105 | 80 - 120 | 1 | 20 |
| Bromoform | ND | | 50.0 | 51.6 | | ug/L | | 103 | 78 - 122 | 2 | 20 |
| Bromomethane | ND | | 50.0 | 48.3 | | ug/L | | 97 | 51 - 146 | 11 | 20 |
| 2-Butanone (MEK) | ND | | 50.0 | 51.8 | | ug/L | | 104 | 62 - 135 | 5 | 20 |
| Carbon disulfide | ND | | 50.0 | 50.1 | | ug/L | | 100 | 80 - 120 | 11 | 20 |
| Carbon tetrachloride | ND | | 50.0 | 50.5 | | ug/L | | 101 | 80 - 124 | 8 | 20 |
| Chlorobenzene | ND | | 50.0 | 50.0 | | ug/L | | 100 | 80 - 120 | 3 | 20 |

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 160-5524-1 MSD

Matrix: Water

Analysis Batch: 105508

Client Sample ID: PZ-211-SD
Prep Type: Total/NA

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. | | RPD | RPD |
|-----------------------------|--------|-----------|-------|--------|-----------|------|-----|----------|--------|-------|-----|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | Limit | | |
| Chloroethane | ND | | 50.0 | 46.3 | | ug/L | 93 | 53 - 148 | 12 | 20 | 6 | 20 |
| Chloroform | ND | | 50.0 | 51.1 | | ug/L | 102 | 80 - 120 | 5 | 20 | 2 | 20 |
| Chloromethane | ND | | 50.0 | 47.2 | | ug/L | 94 | 80 - 120 | 8 | 20 | 7 | 20 |
| cis-1,2-Dichloroethene | ND | | 50.0 | 49.5 | | ug/L | 99 | 80 - 120 | 6 | 20 | 8 | 20 |
| cis-1,3-Dichloropropene | ND | | 50.0 | 51.3 | | ug/L | 103 | 80 - 120 | 2 | 20 | 9 | 20 |
| Cyclohexane | ND | | 50.0 | 49.9 | | ug/L | 100 | 80 - 120 | 10 | 20 | 10 | 20 |
| Dibromochloromethane | ND | | 50.0 | 52.3 | | ug/L | 105 | 80 - 120 | 2 | 20 | 11 | 20 |
| 1,2-Dibromo-3-Chloropropane | ND | | 50.0 | 55.5 | | ug/L | 111 | 59 - 144 | 6 | 20 | 12 | 20 |
| 1,2-Dibromoethane (EDB) | ND | | 50.0 | 53.3 | | ug/L | 107 | 80 - 120 | 0 | 20 | 13 | 20 |
| 1,2-Dichlorobenzene | ND | | 50.0 | 49.1 | | ug/L | 98 | 77 - 117 | 5 | 20 | 14 | 20 |
| 1,3-Dichlorobenzene | ND | | 50.0 | 48.6 | | ug/L | 97 | 80 - 120 | 4 | 20 | 15 | 20 |
| 1,4-Dichlorobenzene | ND | | 50.0 | 49.1 | | ug/L | 98 | 80 - 120 | 4 | 20 | 16 | 20 |
| Dichlorodifluoromethane | ND | | 50.0 | 47.6 | | ug/L | 95 | 70 - 131 | 11 | 20 | 17 | 20 |
| 1,1-Dichloroethane | ND | | 50.0 | 51.2 | | ug/L | 102 | 80 - 120 | 6 | 20 | 18 | 20 |
| 1,2-Dichloroethane | ND | | 50.0 | 53.9 | | ug/L | 108 | 80 - 120 | 1 | 20 | 19 | 20 |
| 1,1-Dichloroethene | ND | | 50.0 | 50.0 | | ug/L | 100 | 80 - 120 | 7 | 20 | 20 | 20 |
| 1,2-Dichloropropene | ND | | 50.0 | 52.0 | | ug/L | 104 | 80 - 120 | 4 | 20 | 21 | 20 |
| Ethylbenzene | ND | | 50.0 | 49.5 | | ug/L | 99 | 80 - 120 | 5 | 20 | 22 | 20 |
| 2-Hexanone | ND | | 50.0 | 61.2 | | ug/L | 122 | 65 - 136 | 2 | 20 | 23 | 20 |
| Isopropylbenzene | ND | | 50.0 | 50.7 | | ug/L | 101 | 78 - 125 | 5 | 20 | 24 | 20 |
| Methyl acetate | ND | | 250 | 271 | | ug/L | 109 | 70 - 126 | 0 | 20 | 25 | 20 |
| Methylcyclohexane | ND | | 50.0 | 52.9 | | ug/L | 106 | 83 - 124 | 9 | 20 | 26 | 20 |
| Methylene Chloride | ND | | 50.0 | 49.6 | | ug/L | 99 | 80 - 120 | 7 | 20 | 27 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50.0 | 58.1 | | ug/L | 116 | 74 - 132 | 1 | 20 | 28 | 20 |
| Methyl tert-butyl ether | ND | | 50.0 | 52.3 | | ug/L | 105 | 78 - 124 | 6 | 20 | 29 | 20 |
| m-Xylene & p-Xylene | ND | | 50.0 | 50.0 | | ug/L | 100 | 80 - 120 | 4 | 20 | 30 | 20 |
| o-Xylene | ND | | 50.0 | 50.4 | | ug/L | 101 | 79 - 124 | 6 | 20 | 31 | 20 |
| Styrene | ND | | 50.0 | 51.5 | | ug/L | 103 | 80 - 120 | 3 | 20 | 32 | 20 |
| 1,1,2,2-Tetrachloroethane | ND | | 50.0 | 51.9 | | ug/L | 104 | 72 - 125 | 2 | 20 | 33 | 20 |
| Tetrachloroethene | ND | | 50.0 | 48.4 | | ug/L | 97 | 80 - 120 | 5 | 20 | 34 | 20 |
| Toluene | ND | | 50.0 | 50.7 | | ug/L | 101 | 80 - 120 | 5 | 20 | 35 | 20 |
| trans-1,2-Dichloroethene | ND | | 50.0 | 50.1 | | ug/L | 100 | 80 - 120 | 8 | 20 | 36 | 20 |
| trans-1,3-Dichloropropene | ND | | 50.0 | 53.7 | | ug/L | 107 | 77 - 122 | 2 | 20 | 37 | 20 |
| 1,2,4-Trichlorobenzene | ND | | 50.0 | 51.4 | | ug/L | 103 | 78 - 124 | 3 | 20 | 38 | 20 |
| 1,1,1-Trichloroethane | ND | | 50.0 | 50.2 | | ug/L | 100 | 81 - 123 | 9 | 20 | 39 | 20 |
| 1,1,2-Trichloroethane | ND | | 50.0 | 51.6 | | ug/L | 103 | 76 - 119 | 4 | 20 | 40 | 20 |
| Trichloroethene | ND | | 50.0 | 54.3 | | ug/L | 109 | 80 - 120 | 7 | 20 | 41 | 20 |
| Trichlorofluoromethane | ND | | 50.0 | 46.5 | | ug/L | 93 | 79 - 128 | 11 | 20 | 42 | 20 |
| Vinyl chloride | ND | | 50.0 | 47.3 | | ug/L | 95 | 75 - 118 | 10 | 20 | 43 | 20 |
| Xylenes, Total | ND | | 100 | 100 | | ug/L | 100 | 80 - 120 | 5 | 20 | 44 | 20 |

| Surrogate | MSD | MSD | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 94 | | 75 - 123 |
| Dibromofluoromethane (Surr) | 97 | | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 78 - 127 |
| Toluene-d8 (Surr) | 96 | | 80 - 120 |

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-105221/1-A

Matrix: Water

Analysis Batch: 105997

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105221

| Analyte | MB | MB | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|----|----|--------|-----------|------|------|------|---|----------------|----------------|---------|
| | | | | | | | | | | | |
| Aluminum | | | ND | | 200 | 80 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Antimony | | | ND | | 10 | 4.0 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Arsenic | | | ND | | 10 | 2.0 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Barium | | | ND | | 50 | 4.0 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Beryllium | | | ND | | 5.0 | 0.61 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Cadmium | | | ND | | 5.0 | 0.91 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Calcium | | | ND | | 1000 | 110 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Chromium | | | ND | | 10 | 3.1 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Cobalt | | | ND | | 50 | 4.9 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Copper | | | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Iron | | | ND | | 100 | 28 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Lead | | | ND | | 10 | 1.5 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Magnesium | | | ND | | 1000 | 130 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Manganese | | | ND | | 15 | 3.3 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Nickel | | | ND | | 40 | 13 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Potassium | | | ND | ^ | 5000 | 1700 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Selenium | | | ND | | 15 | 2.7 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Silver | | | ND | | 10 | 6.0 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Sodium | | | ND | ^ | 1000 | 320 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Thallium | | | ND | | 20 | 4.0 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Vanadium | | | ND | | 50 | 4.1 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |
| Zinc | | | ND | | 20 | 5.2 | ug/L | | 02/14/14 10:32 | 02/18/14 18:57 | 1 |

Lab Sample ID: MB 160-105221/1-A

Matrix: Water

Analysis Batch: 106962

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105221

| Analyte | MB | MB | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|----|----|--------|-----------|------|------|------|---|----------------|----------------|---------|
| | | | | | | | | | | | |
| Aluminum | | | ND | | 200 | 80 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Antimony | | | ND | | 10 | 4.0 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Arsenic | | | ND | | 10 | 2.0 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Barium | | | ND | | 50 | 4.0 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Beryllium | | | ND | | 5.0 | 0.61 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Cadmium | | | ND | | 5.0 | 0.91 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Calcium | | | ND | | 1000 | 110 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Chromium | | | ND | | 10 | 3.1 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Cobalt | | | ND | | 50 | 4.9 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Copper | | | ND | | 25 | 4.6 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Iron | | | ND | | 100 | 28 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Lead | | | ND | | 10 | 1.5 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Magnesium | | | ND | | 1000 | 130 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Manganese | | | ND | | 15 | 3.3 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Nickel | | | ND | | 40 | 13 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Potassium | | | ND | | 5000 | 1700 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Selenium | | | ND | | 15 | 2.7 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Silver | | | ND | | 10 | 6.0 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Sodium | | | ND | | 1000 | 320 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Thallium | | | ND | | 20 | 4.0 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 160-105221/1-A

Matrix: Water

Analysis Batch: 106962

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105221

| Analyte | MB | MB | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | | | |
| Vanadium | ND | | | | 50 | 4.1 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |
| Zinc | ND | | | | 20 | 5.2 | ug/L | | 02/14/14 10:32 | 02/21/14 15:35 | 1 |

Lab Sample ID: LCS 160-105221/2-A

Matrix: Water

Analysis Batch: 105997

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105221

| Analyte | Spike | LCS | LCS | %Rec. | | | | Limits | Dil Fac |
|-----------|-------|--------|-----------|-------|---|------|--|----------|---------|
| | Added | Result | Qualifier | Unit | D | %Rec | | | |
| Aluminum | 10000 | 9620 | | ug/L | | 96 | | 80 - 120 | |
| Antimony | 500 | 497 | | ug/L | | 99 | | 80 - 120 | |
| Arsenic | 1000 | 975 | | ug/L | | 98 | | 80 - 120 | |
| Barium | 1000 | 1010 | | ug/L | | 101 | | 80 - 120 | |
| Beryllium | 1000 | 971 | | ug/L | | 97 | | 80 - 120 | |
| Cadmium | 1000 | 998 | | ug/L | | 100 | | 80 - 120 | |
| Calcium | 10000 | 10600 | | ug/L | | 106 | | 80 - 120 | |
| Chromium | 1000 | 989 | | ug/L | | 99 | | 80 - 120 | |
| Cobalt | 1000 | 1050 | | ug/L | | 105 | | 80 - 120 | |
| Copper | 1000 | 1030 | | ug/L | | 103 | | 80 - 120 | |
| Iron | 10000 | 9610 | | ug/L | | 96 | | 80 - 120 | |
| Lead | 1000 | 1070 | | ug/L | | 107 | | 80 - 120 | |
| Magnesium | 10000 | 9530 | | ug/L | | 95 | | 80 - 120 | |
| Manganese | 1000 | 945 | | ug/L | | 95 | | 80 - 120 | |
| Nickel | 1000 | 1070 | | ug/L | | 107 | | 80 - 120 | |
| Potassium | 10000 | 11300 | ^ | ug/L | | 113 | | 80 - 120 | |
| Selenium | 500 | 492 | | ug/L | | 98 | | 80 - 120 | |
| Silver | 200 | 191 | | ug/L | | 96 | | 80 - 120 | |
| Sodium | 10000 | 11400 | ^ | ug/L | | 114 | | 80 - 120 | |
| Thallium | 200 | 226 | | ug/L | | 113 | | 80 - 120 | |
| Vanadium | 1000 | 932 | | ug/L | | 93 | | 80 - 120 | |
| Zinc | 1000 | 1030 | | ug/L | | 103 | | 80 - 120 | |

Lab Sample ID: LCS 160-105221/2-A

Matrix: Water

Analysis Batch: 106962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105221

| Analyte | Spike | LCS | LCS | %Rec. | | | | Limits | Dil Fac |
|-----------|-------|--------|-----------|-------|---|------|--|----------|---------|
| | Added | Result | Qualifier | Unit | D | %Rec | | | |
| Aluminum | 10000 | 9820 | | ug/L | | 98 | | 80 - 120 | |
| Antimony | 500 | 506 | | ug/L | | 101 | | 80 - 120 | |
| Arsenic | 1000 | 977 | | ug/L | | 98 | | 80 - 120 | |
| Barium | 1000 | 992 | | ug/L | | 99 | | 80 - 120 | |
| Beryllium | 1000 | 983 | | ug/L | | 98 | | 80 - 120 | |
| Cadmium | 1000 | 1000 | | ug/L | | 100 | | 80 - 120 | |
| Calcium | 10000 | 10600 | | ug/L | | 106 | | 80 - 120 | |
| Chromium | 1000 | 1000 | | ug/L | | 100 | | 80 - 120 | |
| Cobalt | 1000 | 1050 | | ug/L | | 105 | | 80 - 120 | |
| Copper | 1000 | 1050 | | ug/L | | 105 | | 80 - 120 | |
| Iron | 10000 | 9790 | | ug/L | | 98 | | 80 - 120 | |
| Lead | 1000 | 1060 | | ug/L | | 106 | | 80 - 120 | |
| Magnesium | 10000 | 9280 | | ug/L | | 93 | | 80 - 120 | |

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 160-105221/2-A

Matrix: Water

Analysis Batch: 106962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105221

| Analyte | Spike Added | LCS | | Unit | D | %Rec | Limits | |
|-----------|----------------|--------|-----------|------|---|------|----------|--|
| | | Result | Qualifier | | | | | |
| Manganese | 1000 | 982 | | ug/L | | 98 | 80 - 120 | |
| Nickel | 1000 | 1060 | | ug/L | | 106 | 80 - 120 | |
| Potassium | 10000 | 11000 | | ug/L | | 110 | 80 - 120 | |
| Selenium | 500 | 497 | | ug/L | | 99 | 80 - 120 | |
| Silver | 200 | 201 | | ug/L | | 100 | 80 - 120 | |
| Sodium | 10000 | 11000 | | ug/L | | 110 | 80 - 120 | |
| Thallium | 200 | 229 | | ug/L | | 115 | 80 - 120 | |
| Vanadium | 1000 | 966 | | ug/L | | 97 | 80 - 120 | |
| Zinc | 1000 | 1020 | | ug/L | | 102 | 80 - 120 | |

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-105080/1-A

Matrix: Water

Analysis Batch: 105740

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105080

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Mercury | ND | | 0.20 | 0.060 | ug/L | | 02/13/14 09:56 | 02/13/14 15:07 | 1 |

Lab Sample ID: LCS 160-105080/2-A

Matrix: Water

Analysis Batch: 105740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105080

| Analyte | Spike Added | LCS | | Unit | D | %Rec | Limits | |
|---------|----------------|--------|-----------|------|---|------|----------|--|
| | | Result | Qualifier | | | | | |
| Mercury | 5.00 | 5.20 | | ug/L | | 104 | 80 - 120 | |

Lab Sample ID: 160-5524-1 MS

Matrix: Water

Analysis Batch: 105740

Client Sample ID: PZ-211-SD

Prep Type: Dissolved

Prep Batch: 105080

| Analyte | Sample | Sample | Spike Added | MS | | Unit | D | %Rec | Limits |
|---------|--------|-----------|----------------|--------|-----------|------|---|------|----------|
| | Result | Qualifier | | Result | Qualifier | | | | |
| Mercury | ND | | 5.00 | 4.96 | | ug/L | | 99 | 80 - 120 |

Lab Sample ID: 160-5524-1 MSD

Matrix: Water

Analysis Batch: 105740

Client Sample ID: PZ-211-SD

Prep Type: Dissolved

Prep Batch: 105080

| Analyte | Sample | Sample | Spike Added | MSD | | Unit | D | %Rec | Limits | RPD | Limit |
|---------|--------|-----------|----------------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | | Result | Qualifier | | | | | | |
| Mercury | ND | | 5.00 | 5.17 | | ug/L | | 103 | 80 - 120 | 4 | 20 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-105215/3

Matrix: Water

Analysis Batch: 105215

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Nitrate as N | ND | | 0.020 | 0.0040 | mg/L | | | 02/12/14 10:15 | 1 |
| Chloride | ND | | 0.20 | 0.020 | mg/L | | | 02/12/14 10:15 | 1 |

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 160-105215/3

Matrix: Water

Analysis Batch: 105215

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB | MB | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | | | |
| Bromide | ND | | | | 0.25 | 0.025 | mg/L | | | 02/12/14 10:15 | 1 |
| Sulfate | ND | | | | 0.50 | 0.050 | mg/L | | | 02/12/14 10:15 | 1 |

Lab Sample ID: LCS 160-105215/4

Matrix: Water

Analysis Batch: 105215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LC S | LC S | Result | Qualifier | Unit | D | %Rec | Limits | | |
|--------------|----------------|--------|-----------|--------|-----------|------|---|------|----------|--|--|
| | | Result | Qualifier | | | | | | | | |
| Nitrate as N | 0.400 | 0.402 | | | | mg/L | | 101 | 90 - 110 | | |
| Chloride | 2.00 | 1.92 | | | | mg/L | | 96 | 90 - 110 | | |
| Bromide | 2.00 | 2.03 | | | | mg/L | | 101 | 90 - 110 | | |
| Sulfate | 8.00 | 7.81 | | | | mg/L | | 98 | 90 - 110 | | |

Lab Sample ID: 160-5524-6 MS

Matrix: Water

Analysis Batch: 105215

Client Sample ID: DUPLICATE 01
Prep Type: Total/NA

| Analyte | Sample | Sample | Spike | MS | MS | Result | Qualifier | Unit | D | %Rec | Limits |
|--------------|--------|-----------|-------|--------|-----------|--------|-----------|------|----------|------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Nitrate as N | 0.068 | | 0.400 | 0.456 | | mg/L | | 97 | 90 - 110 | | |
| Bromide | 0.11 | J | 2.00 | 2.14 | | mg/L | | 102 | 90 - 110 | | |

Lab Sample ID: 160-5524-6 MSD

Matrix: Water

Analysis Batch: 105215

Client Sample ID: DUPLICATE 01
Prep Type: Total/NA

| Analyte | Sample | Sample | Spike | MS D | MS D | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|--------------|--------|-----------|-------|--------|-----------|--------|-----------|------|----------|------|--------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | | | |
| Nitrate as N | 0.068 | | 0.400 | 0.456 | | mg/L | | 97 | 90 - 110 | | 0 | 20 | |
| Bromide | 0.11 | J | 2.00 | 2.16 | | mg/L | | 102 | 90 - 110 | | 1 | 20 | |

Lab Sample ID: MB 160-105794/3

Matrix: Water

Analysis Batch: 105794

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB | MB | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | | | |
| Nitrate as N | ND | | | | 0.020 | 0.0040 | mg/L | | | 02/13/14 15:15 | 1 |
| Chloride | ND | | | | 0.20 | 0.020 | mg/L | | | 02/13/14 15:15 | 1 |
| Bromide | ND | | | | 0.25 | 0.025 | mg/L | | | 02/13/14 15:15 | 1 |
| Sulfate | ND | | | | 0.50 | 0.050 | mg/L | | | 02/13/14 15:15 | 1 |

Lab Sample ID: LCS 160-105794/4

Matrix: Water

Analysis Batch: 105794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LC S | LC S | Result | Qualifier | Unit | D | %Rec | Limits | | |
|--------------|----------------|--------|-----------|--------|-----------|------|---|------|----------|--|--|
| | | Result | Qualifier | | | | | | | | |
| Nitrate as N | 0.400 | 0.394 | | | | mg/L | | 98 | 90 - 110 | | |
| Chloride | 2.00 | 1.87 | | | | mg/L | | 94 | 90 - 110 | | |
| Bromide | 2.00 | 2.00 | | | | mg/L | | 100 | 90 - 110 | | |
| Sulfate | 8.00 | 7.62 | | | | mg/L | | 95 | 90 - 110 | | |

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 160-5524-3 MS

Matrix: Water

Analysis Batch: 105794

Client Sample ID: PZ-209-SD

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec. | Limits |
|--------------|---------------|------------------|-------------|-----------|--------------|------|---|-------|----------|
| Nitrate as N | 0.087 | | 0.400 | 0.461 | | mg/L | | 94 | 90 - 110 |
| Bromide | 0.080 | J | 2.00 | 2.07 | | mg/L | | 100 | 90 - 110 |

Lab Sample ID: 160-5524-3 MSD

Matrix: Water

Analysis Batch: 105794

Client Sample ID: PZ-209-SD

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. | RPD | Limit |
|--------------|---------------|------------------|-------------|------------|---------------|------|---|-------|----------|-------|
| Nitrate as N | 0.087 | | 0.400 | 0.462 | | mg/L | | 94 | 90 - 110 | 0 20 |
| Bromide | 0.080 | J | 2.00 | 2.07 | | mg/L | | 99 | 90 - 110 | 0 20 |

Lab Sample ID: MB 160-107224/9

Matrix: Water

Analysis Batch: 107224

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Iodide | ND | | 1.0 | 0.10 | mg/L | | | 02/24/14 18:46 | 1 |

Lab Sample ID: LCS 160-107224/10

Matrix: Water

Analysis Batch: 107224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec. | Limits |
|---------|-------------|------------|---------------|------|---|-------|----------|
| Iodide | 4.00 | 3.95 | | mg/L | | 99 | 90 - 110 |

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 160-5524-6 MS

Matrix: Water

Analysis Batch: 105215

Client Sample ID: DUPLICATE 01

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec. | Limits |
|---------------|---------------|------------------|-------------|-----------|--------------|------|---|-------|----------|
| Chloride - DL | 26 | | 40.0 | 68.3 | | mg/L | | 107 | 90 - 110 |
| Sulfate - DL | 79 | | 80.0 | 157 | | mg/L | | 98 | 90 - 110 |

Lab Sample ID: 160-5524-6 MSD

Matrix: Water

Analysis Batch: 105215

Client Sample ID: DUPLICATE 01

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. | RPD | Limit |
|---------------|---------------|------------------|-------------|------------|---------------|------|---|-------|----------|-------|
| Chloride - DL | 26 | | 40.0 | 65.1 | | mg/L | | 99 | 90 - 110 | 5 20 |
| Sulfate - DL | 79 | | 80.0 | 157 | | mg/L | | 97 | 90 - 110 | 0 20 |

Lab Sample ID: 160-5524-3 MS

Matrix: Water

Analysis Batch: 105794

Client Sample ID: PZ-209-SD

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec. | Limits |
|---------------|---------------|------------------|-------------|-----------|--------------|------|---|-------|----------|
| Chloride - DL | 7.4 | | 40.0 | 45.8 | | mg/L | | 96 | 90 - 110 |

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Method: 300.0 - Anions, Ion Chromatography - DL (Continued)

Lab Sample ID: 160-5524-3 MS

Matrix: Water

Analysis Batch: 105794

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec. | %Limits | | |
|--------------|--------|-----------|-------|--------|-----------|------|---|-------|----------|--|--|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Sulfate - DL | 50 | | 80.0 | 126 | | mg/L | | 96 | 90 - 110 | | |

Lab Sample ID: 160-5524-3 MSD

Matrix: Water

Analysis Batch: 105794

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec. | %Limits | RPD | Limit |
|---------------|--------|-----------|-------|--------|-----------|------|---|-------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Chloride - DL | 7.4 | | 40.0 | 45.5 | | mg/L | | 95 | 90 - 110 | 1 | 20 |
| Sulfate - DL | 50 | | 80.0 | 124 | | mg/L | | 93 | 90 - 110 | 2 | 20 |

Method: 310.1 - Alkalinity

Lab Sample ID: MB 680-316390/5

Matrix: Water

Analysis Batch: 316390

| Analyte | MB | MB | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Alkalinity | ND | | 5.0 | 5.0 | mg/L | | | 02/19/14 15:41 | 1 |

Lab Sample ID: LCS 680-316390/6

Matrix: Water

Analysis Batch: 316390

| Analyte | Spike | LCS | LCS | Unit | D | %Rec. | %Limits | |
|------------|-------|--------|-----------|------|---|-------|----------|--|
| | Added | Result | Qualifier | | | | | |
| Alkalinity | 250 | 227 | | mg/L | | 91 | 80 - 120 | |

Lab Sample ID: LCSD 680-316390/32

Matrix: Water

Analysis Batch: 316390

| Analyte | Spike | LCSD | LCSD | Unit | D | %Rec. | %Limits | RPD | Limit |
|------------|-------|--------|-----------|------|---|-------|----------|-----|-------|
| | Added | Result | Qualifier | | | | | | |
| Alkalinity | 250 | 219 | | mg/L | | 87 | 80 - 120 | 4 | 30 |

Lab Sample ID: MB 680-316851/5

Matrix: Water

Analysis Batch: 316851

| Analyte | MB | MB | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Alkalinity | ND | | 5.0 | 5.0 | mg/L | | | 02/23/14 16:44 | 1 |

Lab Sample ID: LCS 680-316851/6

Matrix: Water

Analysis Batch: 316851

| Analyte | Spike | LCS | LCS | Unit | D | %Rec. | %Limits | |
|------------|-------|--------|-----------|------|---|-------|----------|--|
| | Added | Result | Qualifier | | | | | |
| Alkalinity | 250 | 209 | | mg/L | | 84 | 80 - 120 | |

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Method: 310.1 - Alkalinity (Continued)

Lab Sample ID: LCSD 680-316851/32

Matrix: Water

Analysis Batch: 316851

| Analyte | Spike Added | LCSD | LCSD | Unit | D | %Rec. | RPD | Limit |
|------------|----------------|--------|-----------|------|---|-------|----------|-------|
| | | Result | Qualifier | | | | | |
| Alkalinity | 250 | 215 | | mg/L | | 86 | 80 - 120 | 3 |

Lab Sample ID: 160-5524-1 DU

Matrix: Water

Analysis Batch: 316851

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | Limit |
|------------|--------|-----------|--------|-----------|------|---|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | |
| Alkalinity | 340 | | 393 | | mg/L | | 13 | 30 |

QC Association Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

GC/MS VOA

Analysis Batch: 105508

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 160-5524-1 | PZ-211-SD | Total/NA | Water | 8260C | 5 |
| 160-5524-1 MS | PZ-211-SD | Total/NA | Water | 8260C | 6 |
| 160-5524-1 MSD | PZ-211-SD | Total/NA | Water | 8260C | 7 |
| 160-5524-2 | PZ-211-SS | Total/NA | Water | 8260C | 8 |
| 160-5524-3 | PZ-209-SD | Total/NA | Water | 8260C | 9 |
| 160-5524-4 | PZ-209-SS | Total/NA | Water | 8260C | 10 |
| 160-5524-5 | PZ-212-SS | Total/NA | Water | 8260C | 11 |
| 160-5524-6 | DUPLICATE 01 | Total/NA | Water | 8260C | 12 |
| 160-5524-7 | TRIP BLANK | Total/NA | Water | 8260C | 13 |
| LCS 160-105508/4-A | Lab Control Sample | Total/NA | Water | 8260C | |
| MB 160-105508/3-A | Method Blank | Total/NA | Water | 8260C | |

Metals

Prep Batch: 105080

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 160-5524-1 | PZ-211-SD | Dissolved | Water | 7470A | 12 |
| 160-5524-1 | PZ-211-SD | Total/NA | Water | 7470A | 13 |
| 160-5524-1 MS | PZ-211-SD | Dissolved | Water | 7470A | |
| 160-5524-1 MSD | PZ-211-SD | Dissolved | Water | 7470A | |
| 160-5524-2 | PZ-211-SS | Dissolved | Water | 7470A | |
| 160-5524-2 | PZ-211-SS | Total/NA | Water | 7470A | |
| 160-5524-3 | PZ-209-SD | Dissolved | Water | 7470A | |
| 160-5524-3 | PZ-209-SD | Total/NA | Water | 7470A | |
| 160-5524-4 | PZ-209-SS | Dissolved | Water | 7470A | |
| 160-5524-4 | PZ-209-SS | Total/NA | Water | 7470A | |
| 160-5524-5 | PZ-212-SS | Dissolved | Water | 7470A | |
| 160-5524-5 | PZ-212-SS | Total/NA | Water | 7470A | |
| 160-5524-6 | DUPLICATE 01 | Dissolved | Water | 7470A | |
| 160-5524-6 | DUPLICATE 01 | Total/NA | Water | 7470A | |
| LCS 160-105080/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| MB 160-105080/1-A | Method Blank | Total/NA | Water | 7470A | |

Prep Batch: 105221

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 160-5524-1 | PZ-211-SD | Dissolved | Water | 3010A | |
| 160-5524-1 | PZ-211-SD | Total/NA | Water | 3010A | |
| 160-5524-2 | PZ-211-SS | Dissolved | Water | 3010A | |
| 160-5524-2 | PZ-211-SS | Total/NA | Water | 3010A | |
| 160-5524-3 | PZ-209-SD | Dissolved | Water | 3010A | |
| 160-5524-3 | PZ-209-SD | Total/NA | Water | 3010A | |
| 160-5524-4 | PZ-209-SS | Dissolved | Water | 3010A | |
| 160-5524-4 | PZ-209-SS | Total/NA | Water | 3010A | |
| 160-5524-5 | PZ-212-SS | Dissolved | Water | 3010A | |
| 160-5524-5 | PZ-212-SS | Total/NA | Water | 3010A | |
| 160-5524-6 | DUPLICATE 01 | Dissolved | Water | 3010A | |
| 160-5524-6 | DUPLICATE 01 | Total/NA | Water | 3010A | |
| LCS 160-105221/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| MB 160-105221/1-A | Method Blank | Total/NA | Water | 3010A | |

TestAmerica St. Louis

QC Association Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Metals (Continued)

Analysis Batch: 105740

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 160-5524-1 | PZ-211-SD | Dissolved | Water | 7470A | 105080 |
| 160-5524-1 | PZ-211-SD | Total/NA | Water | 7470A | 105080 |
| 160-5524-1 MS | PZ-211-SD | Dissolved | Water | 7470A | 105080 |
| 160-5524-1 MSD | PZ-211-SD | Dissolved | Water | 7470A | 105080 |
| 160-5524-2 | PZ-211-SS | Dissolved | Water | 7470A | 105080 |
| 160-5524-2 | PZ-211-SS | Total/NA | Water | 7470A | 105080 |
| 160-5524-3 | PZ-209-SD | Dissolved | Water | 7470A | 105080 |
| 160-5524-3 | PZ-209-SD | Total/NA | Water | 7470A | 105080 |
| 160-5524-4 | PZ-209-SS | Dissolved | Water | 7470A | 105080 |
| 160-5524-4 | PZ-209-SS | Total/NA | Water | 7470A | 105080 |
| 160-5524-5 | PZ-212-SS | Dissolved | Water | 7470A | 105080 |
| 160-5524-5 | PZ-212-SS | Total/NA | Water | 7470A | 105080 |
| 160-5524-6 | DUPLICATE 01 | Dissolved | Water | 7470A | 105080 |
| 160-5524-6 | DUPLICATE 01 | Total/NA | Water | 7470A | 105080 |
| LCS 160-105080/2-A | Lab Control Sample | Total/NA | Water | 7470A | 105080 |
| MB 160-105080/1-A | Method Blank | Total/NA | Water | 7470A | 105080 |

Analysis Batch: 105997

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 160-5524-1 | PZ-211-SD | Dissolved | Water | 6010C | 105221 |
| 160-5524-1 | PZ-211-SD | Total/NA | Water | 6010C | 105221 |
| 160-5524-2 | PZ-211-SS | Dissolved | Water | 6010C | 105221 |
| 160-5524-2 | PZ-211-SS | Total/NA | Water | 6010C | 105221 |
| 160-5524-3 | PZ-209-SD | Dissolved | Water | 6010C | 105221 |
| 160-5524-3 | PZ-209-SD | Total/NA | Water | 6010C | 105221 |
| 160-5524-4 | PZ-209-SS | Dissolved | Water | 6010C | 105221 |
| 160-5524-4 | PZ-209-SS | Total/NA | Water | 6010C | 105221 |
| 160-5524-5 | PZ-212-SS | Dissolved | Water | 6010C | 105221 |
| 160-5524-5 | PZ-212-SS | Total/NA | Water | 6010C | 105221 |
| 160-5524-6 | DUPLICATE 01 | Dissolved | Water | 6010C | 105221 |
| 160-5524-6 | DUPLICATE 01 | Total/NA | Water | 6010C | 105221 |
| LCS 160-105221/2-A | Lab Control Sample | Total/NA | Water | 6010C | 105221 |
| MB 160-105221/1-A | Method Blank | Total/NA | Water | 6010C | 105221 |

Analysis Batch: 106098

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 160-5524-1 | PZ-211-SD | Total/NA | Water | 6010C | 105221 |
| 160-5524-1 | PZ-211-SD | Total/NA | Water | 6010C | 105221 |

Analysis Batch: 106962

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 160-5524-1 | PZ-211-SD | Dissolved | Water | 6010C | 105221 |
| 160-5524-1 | PZ-211-SD | Total/NA | Water | 6010C | 105221 |
| 160-5524-2 | PZ-211-SS | Dissolved | Water | 6010C | 105221 |
| 160-5524-2 | PZ-211-SS | Total/NA | Water | 6010C | 105221 |
| 160-5524-3 | PZ-209-SD | Dissolved | Water | 6010C | 105221 |
| 160-5524-3 | PZ-209-SD | Total/NA | Water | 6010C | 105221 |
| 160-5524-4 | PZ-209-SS | Dissolved | Water | 6010C | 105221 |
| 160-5524-4 | PZ-209-SS | Total/NA | Water | 6010C | 105221 |
| 160-5524-5 | PZ-212-SS | Dissolved | Water | 6010C | 105221 |
| 160-5524-5 | PZ-212-SS | Total/NA | Water | 6010C | 105221 |

TestAmerica St. Louis

QC Association Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Metals (Continued)

Analysis Batch: 106962 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 160-5524-6 | DUPLICATE 01 | Dissolved | Water | 6010C | 105221 |
| 160-5524-6 | DUPLICATE 01 | Total/NA | Water | 6010C | 105221 |
| LCS 160-105221/2-A | Lab Control Sample | Total/NA | Water | 6010C | 105221 |
| MB 160-105221/1-A | Method Blank | Total/NA | Water | 6010C | 105221 |

General Chemistry

Analysis Batch: 105215

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 160-5524-1 | PZ-211-SD | Total/NA | Water | 300.0 | 9 |
| 160-5524-1 - DL | PZ-211-SD | Total/NA | Water | 300.0 | 10 |
| 160-5524-2 | PZ-211-SS | Total/NA | Water | 300.0 | 11 |
| 160-5524-2 - DL | PZ-211-SS | Total/NA | Water | 300.0 | 12 |
| 160-5524-5 | PZ-212-SS | Total/NA | Water | 300.0 | 13 |
| 160-5524-5 - DL | PZ-212-SS | Total/NA | Water | 300.0 | |
| 160-5524-6 | DUPLICATE 01 | Total/NA | Water | 300.0 | |
| 160-5524-6 - DL | DUPLICATE 01 | Total/NA | Water | 300.0 | |
| 160-5524-6 MS | DUPLICATE 01 | Total/NA | Water | 300.0 | |
| 160-5524-6 MS - DL | DUPLICATE 01 | Total/NA | Water | 300.0 | |
| 160-5524-6 MSD | DUPLICATE 01 | Total/NA | Water | 300.0 | |
| 160-5524-6 MSD - DL | DUPLICATE 01 | Total/NA | Water | 300.0 | |
| LCS 160-105215/4 | Lab Control Sample | Total/NA | Water | 300.0 | |
| MB 160-105215/3 | Method Blank | Total/NA | Water | 300.0 | |

Analysis Batch: 105794

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 160-5524-3 | PZ-209-SD | Total/NA | Water | 300.0 | |
| 160-5524-3 - DL | PZ-209-SD | Total/NA | Water | 300.0 | |
| 160-5524-3 MS | PZ-209-SD | Total/NA | Water | 300.0 | |
| 160-5524-3 MS - DL | PZ-209-SD | Total/NA | Water | 300.0 | |
| 160-5524-3 MSD | PZ-209-SD | Total/NA | Water | 300.0 | |
| 160-5524-3 MSD - DL | PZ-209-SD | Total/NA | Water | 300.0 | |
| 160-5524-4 | PZ-209-SS | Total/NA | Water | 300.0 | |
| 160-5524-4 - DL | PZ-209-SS | Total/NA | Water | 300.0 | |
| LCS 160-105794/4 | Lab Control Sample | Total/NA | Water | 300.0 | |
| MB 160-105794/3 | Method Blank | Total/NA | Water | 300.0 | |

Analysis Batch: 107224

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 160-5524-1 | PZ-211-SD | Total/NA | Water | 300.0 | |
| 160-5524-2 | PZ-211-SS | Total/NA | Water | 300.0 | |
| 160-5524-3 | PZ-209-SD | Total/NA | Water | 300.0 | |
| 160-5524-4 | PZ-209-SS | Total/NA | Water | 300.0 | |
| 160-5524-5 | PZ-212-SS | Total/NA | Water | 300.0 | |
| 160-5524-6 | DUPLICATE 01 | Total/NA | Water | 300.0 | |
| LCS 160-107224/10 | Lab Control Sample | Total/NA | Water | 300.0 | |
| MB 160-107224/9 | Method Blank | Total/NA | Water | 300.0 | |

TestAmerica St. Louis

QC Association Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

General Chemistry (Continued)

Analysis Batch: 316390

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 160-5524-2 | PZ-211-SS | Total/NA | Water | 310.1 | |
| LCS 680-316390/6 | Lab Control Sample | Total/NA | Water | 310.1 | |
| LCSD 680-316390/32 | Lab Control Sample Dup | Total/NA | Water | 310.1 | |
| MB 680-316390/5 | Method Blank | Total/NA | Water | 310.1 | |

Analysis Batch: 316851

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 160-5524-1 | PZ-211-SD | Total/NA | Water | 310.1 | |
| 160-5524-1 DU | PZ-211-SD | Total/NA | Water | 310.1 | |
| 160-5524-3 | PZ-209-SD | Total/NA | Water | 310.1 | |
| 160-5524-4 | PZ-209-SS | Total/NA | Water | 310.1 | |
| 160-5524-5 | PZ-212-SS | Total/NA | Water | 310.1 | |
| 160-5524-6 | DUPLICATE 01 | Total/NA | Water | 310.1 | |
| LCS 680-316851/6 | Lab Control Sample | Total/NA | Water | 310.1 | |
| LCSD 680-316851/32 | Lab Control Sample Dup | Total/NA | Water | 310.1 | |
| MB 680-316851/5 | Method Blank | Total/NA | Water | 310.1 | |

Surrogate Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-5524-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|--------------------|--------------------|--|------------------|-------------------|-----------------|
| | | BFB (75-123) | DBFM (80-120) | 12DCE (78-127) | TOL (80-120) |
| 160-5524-1 | PZ-211-SD | 106 | 98 | 105 | 96 |
| 160-5524-1 MS | PZ-211-SD | 99 | 104 | 105 | 102 |
| 160-5524-1 MSD | PZ-211-SD | 94 | 97 | 103 | 96 |
| 160-5524-2 | PZ-211-SS | 108 | 94 | 100 | 98 |
| 160-5524-3 | PZ-209-SD | 105 | 99 | 101 | 99 |
| 160-5524-4 | PZ-209-SS | 102 | 97 | 98 | 97 |
| 160-5524-5 | PZ-212-SS | 105 | 99 | 104 | 99 |
| 160-5524-6 | DUPLICATE 01 | 101 | 97 | 101 | 98 |
| 160-5524-7 | TRIP BLANK | 105 | 96 | 98 | 99 |
| LCS 160-105508/4-A | Lab Control Sample | 99 | 98 | 100 | 102 |
| MB 160-105508/3-A | Method Blank | 106 | 98 | 102 | 99 |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)